ORDER NO. VMD9709017C8

Service Manual

Panasonic S VHS C VHS PAL 625

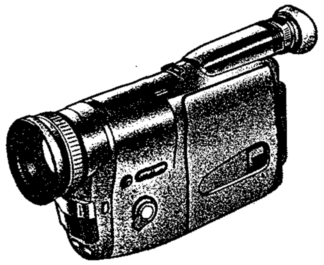
Hi-Fi HQ

General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List

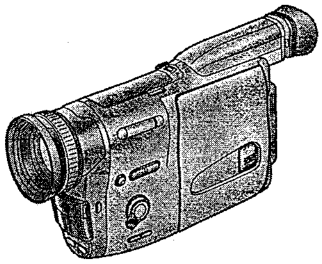
S-VHS-C Movie

NV-SX30 EG/B
NV-SX50 EG/B EN

DL-MECHANISM



NV-SX30



NV-SX50

SPECIFICATIONS

ITEM	SPECIFICATION
POWER	Source: Battery Pack; 4.8 V AC Adaptor; 6.0 V Consumption; 7.6 W (Battery operation)
VIDEO RECORDING SYSTEM	4 rotary heads, helical scanning system PAL
FM AUDIO RECORDING SYSTEM	4 rotary heads, helical scanning system
TAPE FORMAT	S-VHS-C/VHS-C Cassette Tape (Tape width 12.7 mm)
TAPE SPEED	23.39 mm/s Record/ Playback Time: 45 min. with NV-SEC45XD FF/ REW Time: less than 5 min. with NV-SEC45XD
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)
	STANDARD ILLUMINATION: 1,400 lux
	MINIMUM REQUIRED ILLUMINATION: 5 Lux (Low Light Mode)
	LENS: 17 : 1 Wide-angle Power Zoom Lens with Digital AI Auto Focus, Auto Iris, Auto Focus System, F1.4 (3.9 ~ 66.3 mm), Filter Diameter 43 mm
	IMAGE SENSOR: 1/3 inch CCD Image Sensor
	VIEWFINDER: 0.5 inch Electronic Viewfinder
VIDEO	HEADS: 4 rotary heads, 1 flying erase head
	OUTPUT: AV OUT (M3); 1.0 Vp-p, 75Ω terminated S-VIDEO OUT; 1.0 Vp-p, 75Ω terminated

ITEM	SPECIFICATION
AUDIO	HEAD: 1 Stationary head (Normal-Mono) 4 rotary heads; 2 channels (Hi-Fi Sound-Stereo)
	OUTPUT: AV OUT (M3); –6 dB, 47 kΩ loaded/less than 1 kΩ
	INPUT: MIC IN (M3); –70 dBV/4.7 kΩ or more unbalanced
Operating Temperature	0 ~ 40℃
Operating Humidity	10 ~ 80%
WEIGHT	Approx. 785 g (without Battery Pack); NV-SX30 790 g (without Battery Pack); NV-SX50
DIMENSIONS	Approx. 70 (W)×143 (H)×227 (D) mm; NV-SX30 76 (W)×139 (H)×272 (D) mm; NV-SX50
STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack 1 pc. Cassette Adaptor (Except NV-SX30B) 1 pc. Shoulder Strap 1 pc. Audio/Video Cable 1 pc. DC Input Cable 1 pc. Battery for Cassette Adaptor Operation 1 pc. Battery for Remote Controller 1 pc. 21 pin-Adaptor (Except NV-SX50EN/ENH) 1 pc. S-Video Cable 1 pc. AC Cable 1 pc. Remote Controller 1 pc. Remote Controller Holder

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION 1

This service manual contains technical information which will allow service personnel's to understand and service this model.

Section 1 Presents you with some general information of features and controls, enabling you to brcome familiar with each function.

Section 2 Contributes to your electrical adjustment as well disassemble and replacement procedures.

Section 3 Contain block diagrams which offers you information for checking and understanding each circuit.
Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c..

Section 4 Contain exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

Note 1 : Adjustment procedure for Mechanism-Chassis is separate volume.
Please refer to following manual for detail of adjustment procedure for Mechanism-Chassis.
Order number for adjustment procedure of Mechanism-Chassis : VMD9412M130

Note 2 : The Electric adjustment is supported only by TATSUJIN software which is uploaded on item 13 of CS-Net in Pana-Van.
Please download applicable software from CS-Net and use it.
(You can make copies freely.)

Note 3 : These movie camera uses AC Adaptor are VSK0502.
The Service manual for AC Adaptor is separate volume.
Order number for AC Adaptor-----VSK0502 : VMD9709027C8

INTRODUCTION 2

NOTE : NV-SX50EN

NV-SX50EN series has to versions depends on countries.
Detail as follows.

Model-No(Version)	NV-SX50EN	NV-SX50ENH
PACKING CASE	VPG9152	VPG9153
AC-CABLE	VJA0998	VJA0940

SERVICE CAUTION

Preparation to make the service position
1. Remove the all connections on the main C.B.A.
2. Remove the following parts from the side case(L).
   a. AV-Jack b. Power SW c. Zoom SW d. Camera/VTR Operation
3. To make the service position, use the following the extension cables list.
   (During repair and adjustment, it is not necessary to connect FP301 which connects the digital operation assembly.)

1-1. Service Extension Cables.

Use the following extension cables when checking or adjusting individual circuit bords.

Ref.	Part No.	PIN	Part name	Connection	Q'ty	Remarks
(a)	VFK0670	18	Flat Cable	FP6001 - Mech.Chassis	1	
(b)	VFK0670	18	Flat Cable	FP2002 - Capstan Motor	1	
(c)	VFK0978	6	Flat Cable	FP6002 - Mech.Chassis	1	
(d)	VFK0929	12	Flat Cable	PP201 - CCD	1	
(e)	VFK0980	9	Flat Cable	FP4001 - A/C HEAD	1	
(f)	VFK0913	18	Flat Cable	FP701 - LENS UNIT	1	
(g)	VFKW0F0139	7	Attachment Connector	FP2001 - CYLINDER	1	Included in Tatsujin-Kit
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(h)	VFK0668	24	Extension Cable	PS1001 - PP1601	1	

How to use extension cables.

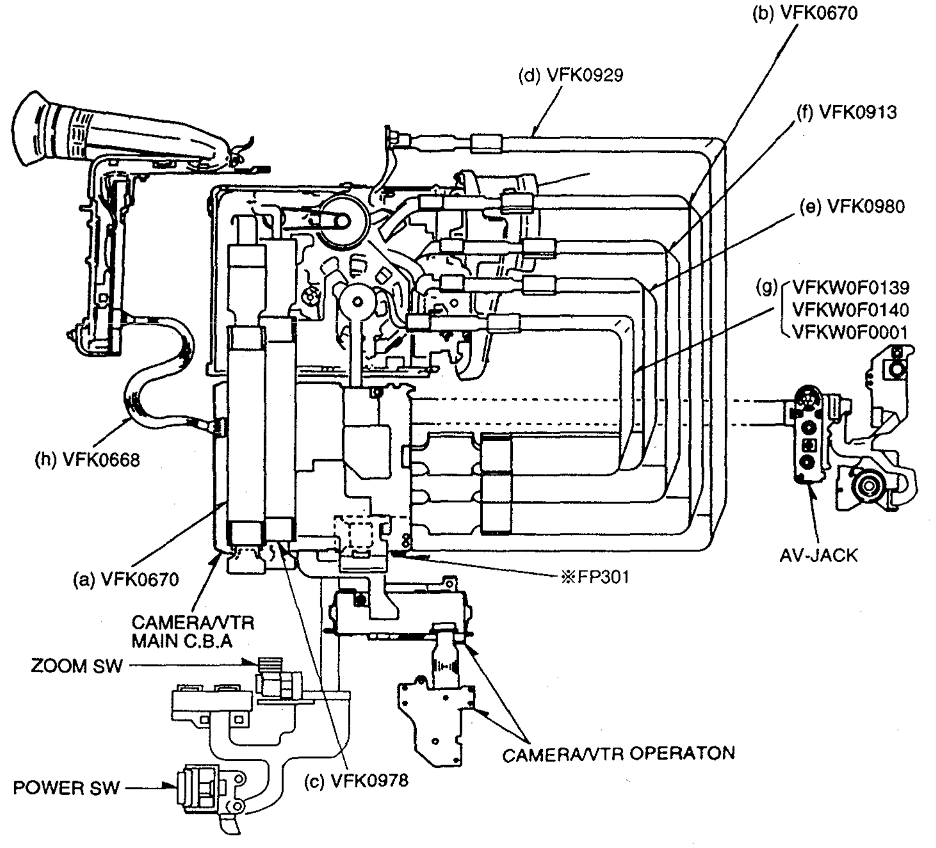

(b) VFK0670
(d) VFK0929
(f) VFK0913
(e) VFK0980
(g) VFKW0F0139
VFKW0F0140
VFKW0F0001
(h) VFK0668
AV-JACK
(a) VFK0670
※FP301
CAMERA/VTR
MAIN C.B.A
ZOOM SW
CAMERA/VTR OPERATON
POWER SW
(c) VFK0978

Fig.T1

1-2. Service Extension Cables. (In case of Tatsujin Cable)

Use the following extension cables when checking or adjusting individual circuit bords.

Ref.	Part No.	PIN	Part name	Connection	Q'ty	Remarks
(a)	VFKW0F0033	18	Attachment Connector	FP6001 - Mech.Chassis	1	Included in Tatsujin-Kit
	VFKW0F0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(b)	VFKW0F0033	18	Attachment Connector	FP2002 - Capstan Motor	1	
	VFKW0F0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(c)	VFKW0F0128	6	Attachment Connector	FP6002 - Mech.Chassis	1	
	VFKW0F0127	6	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(d)	VFKW0F0118	12	Attachment Connector	PP201 - CCD	1	
	VFKW0F0117	12	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(e)	VFKW0F0132	9	Attachment Connector	FP4001 - A/C HEAD	1	
	VFKW0F0131	9	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(f)	VFKW0F0111	18	Attachment Connector	FP701 - LENS UNIT	1	
	VFKW0F0112	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(g)	VFKW0F0139	7	Attachment Connector	FP2001 - CYLINDER	1	
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(h)	VFK0668	24	Extension Cable	PS1001 - PP1601	1	

How to use extension cables.

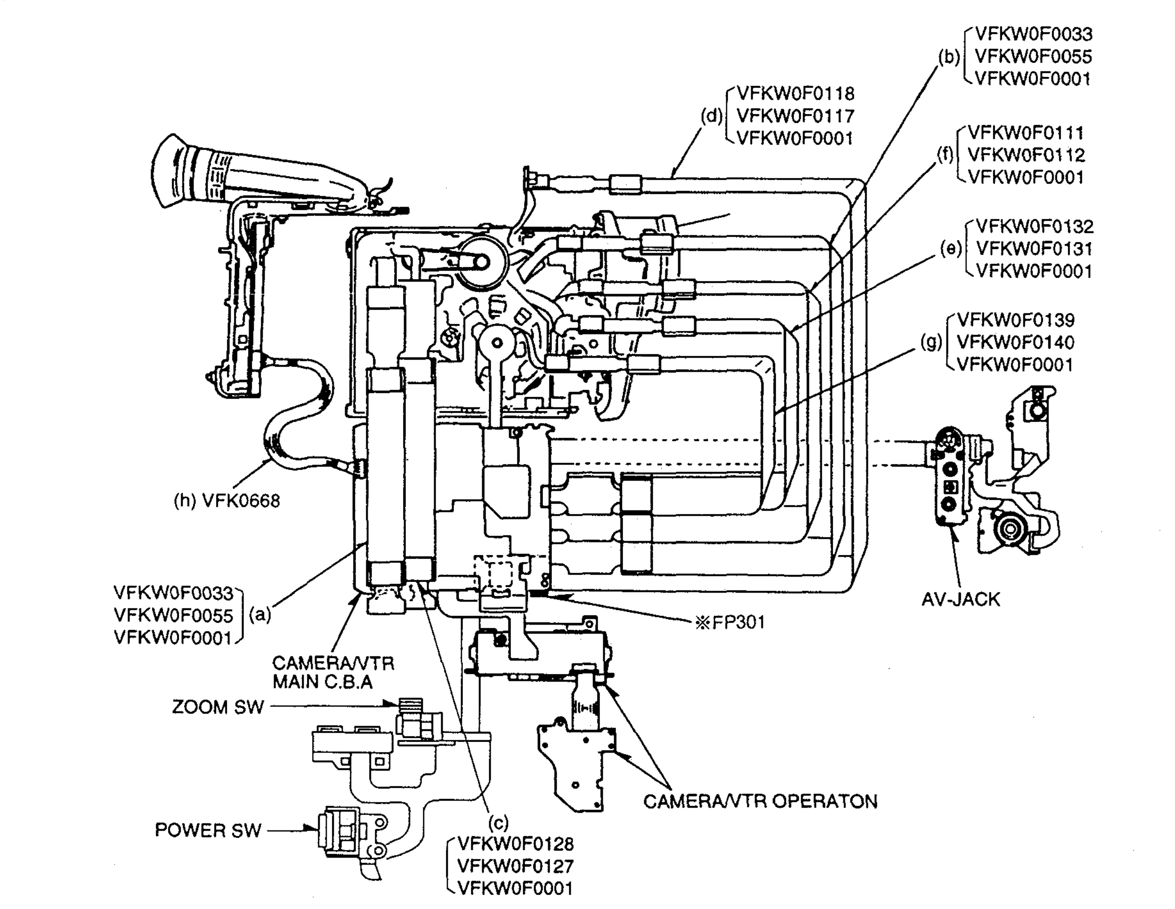

(b) VFKW0F0033 VFKW0F0055 VFKW0F0001
(d) VFKW0F0118 VFKW0F0117 VFKW0F0001
(f) VFKW0F0111 VFKW0F0112 VFKW0F0001
(e) VFKW0F0132 VFKW0F0131 VFKW0F0001
(g) VFKW0F0139 VFKW0F0140 VFKW0F0001
(h) VFK0668
VFKW0F0033 VFKW0F0055 VFKW0F0001 (a)
CAMERA/VTR MAIN C.B.A
※FP301
AV-JACK
ZOOM SW
POWER SW
CAMERA/VTR OPERATON
(c) VFKW0F0128 VFKW0F0127 VFKW0F0001

Fig.T2

1-3. Service Extension Cables. (Service Position for Movement of Mechanism)

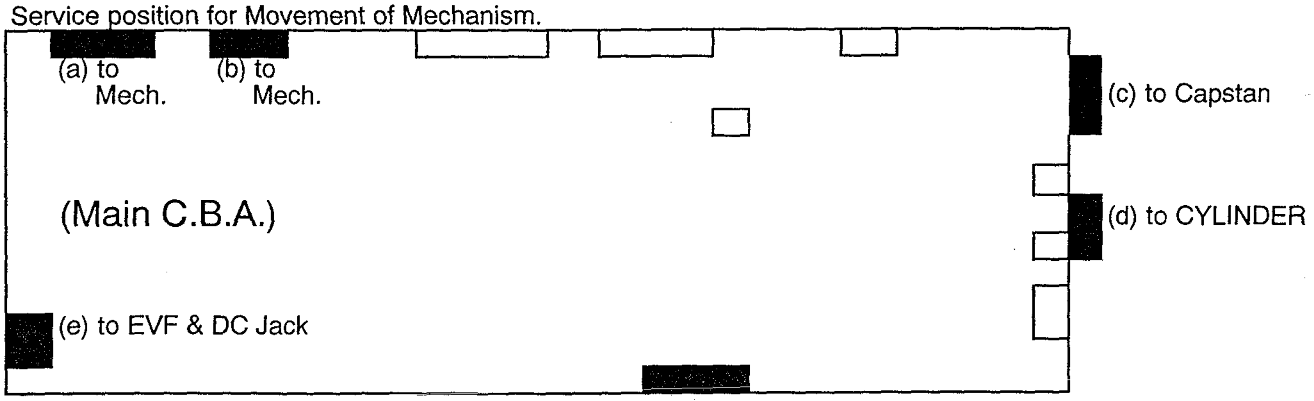
Use the following extension cables when checking the Mechanism.

Ref.	Part No.	PIN	Part name	Connection	Q'ty	Remarks
(a)	VFK0670	18	Flat Cable	FP6001 - Mech.Chassis	1	
(b)	VFK0978	6	Flat Cable	FP6002 - Mech.Chassis	1	
(c)	VFK0670	18	Flat Cable	FP2002 - Capstan Motor	1	
(d)	VFKW0F0139	7	Attachment Connector	FP2001 - CYLINDER	1	Included in Tatsujin-Kit
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(e)	VFK0668	24	Extension Cable	PS1001 - PP1601	1	

In case of Tatsujin Cable.

Ref.	Part No.	PIN	Part name	Connection	Q'ty	Remarks
(a)	VFKW0F0033	18	Attachment Connector	FP6001 - Mech.Chassis	1	Included in Tatsujin-Kit
	VFKW0F0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(b)	VFKW0F0128	6	Attachment Connector	FP6002 - Mech.Chassis	1	
	VFKW0F0127	6	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(c)	VFKW0F0033	18	Attachment Connector	FP2002 - Capstan Motor	1	
	VFKW0F0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(d)	VFKW0F0139	7	Attachment Connector	FP2001 - CYLINDER	1	
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(e)	VFK0668	24	Extension Cable	PS1001 - PP1601	1	

Service position for Movement of Mechanism.



2. The Built-in Lithium Battery.

Charging the Built-in Lithium Battery

The internal clock works even when the Movie Camera is turned off, and it consumes power from the built-in lithium battery. When the Movie Camera is in operation, it automatically charges this battery. However, if the Movie Camera is not used for a very long time, the lithium battery can become discharged. The discharged battery can be charged in the following way:

- **Determining Whether the Built-in Lithium Battery Is Discharged**

  Turn out the [POWER] Switch to turn the Movie Camera on.
  - If the [🔋] Indication in the Finder flashes, the built-in lithium battery is discharged.

- **Charging the Built-in Lithium Battery and Other Required Operations**

1 **Connect the AC Adaptor to the Movie Camera.**

2 **Leave the Movie Camera in this condition for approximately 4 hours. Power is supplied for charging even with the [POWER] Switch turned in.**
- The Charging Lamp on the AC Adaptor does not flash or light. Charging the lithium battery in this way for 4 hours maintains the clock operation for approximately 3 months , chargoing for 13 hours (full charge) maintains it for approximately 1 year.

3 **Set the clock to the current date and time.**

When you charge the built-in lithium battery, we recommend that you turn the Movie Camera off to conserve energy.

3. How to Replace the Lithium Battery.(Procedure)

1.Remove the EVF C.B.A. from Rear Case.
(Remove the 3 Screw from Rear Frame)
2.Unsolder the Lithium battery "VL2020/1HF(for NV-SX30 series)" or "VL2330/1HF(for NV-SX50 series)" then replace the new one. (See Fig.B1:NV-SX30 series, Fig.B2:NV-SX50 series)

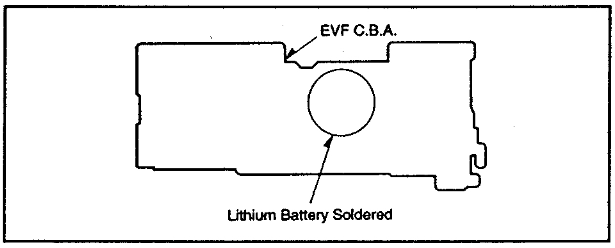


Fig.B1

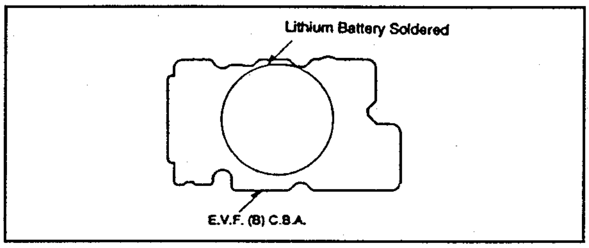


Fig.B2

NOTE:

The lithium battery is a critical component(Type No.: VL2020/1HF or VL2330/1HF Manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer.

Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri af samme fabrikat og type.

Levér det brugte batteri tilbage til leverandøren.

VAROITUS

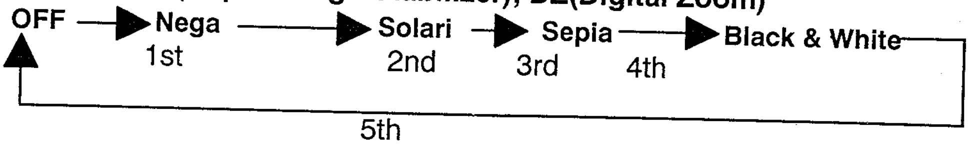
Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

New Digital Effect

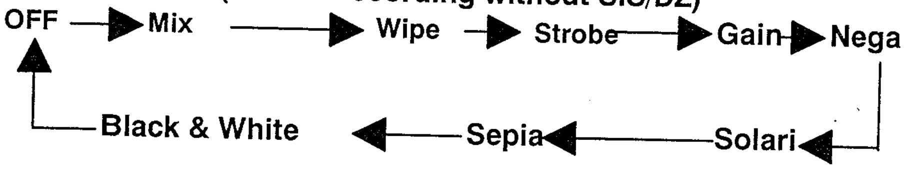
1.General Discretion

This movie camera has new digital effect, There are Solari,Sepia,Nega,Black & White. Press the Digital Effect Switch repeatedly to select the desired Digital effect.

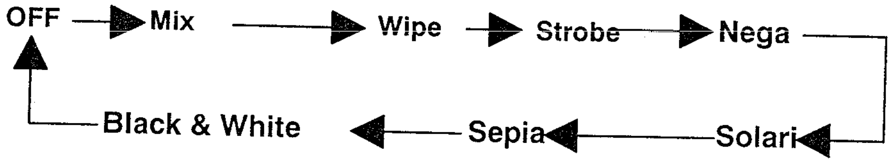
(1) During SIS(Super Image Stabilizer), DZ(Digital Zoom)


OFF
Nega
1st
Solari
2nd
Sepia
3rd
4th
Black & White
5th

(2) Camera Mode (Normal recording without SIS/DZ)


OFF
Mix
Wipe
Strobe
Gain
Nega
Solari
Sepia
Black & White

(3) Playback mode


OFF
Mix
Wipe
Strobe
Nega
Solari
Sepia
Black & White

Digital Effect	Contents of Processing
Solari	Data bit shift.
Sepia Color	Carrier Balance shifted to Magenta.
Nega/posi	Color phase & Gain becomes opposite.
Black & White.	Video out signal become monotone.

System Block Diagram is shown in next page.

NOTE: IC302(Camera DSP) controlled following digital effects.

Wipe,Mix,Strobe,Nega posi

IC3501(TBC IC) controlled following digital effects

Sepia,Black & White

2.Circuit Explanation

This movie camera has new digital effect, There are Solari, Sepia, Nega, Black & White.
Press the Digital Effect Switch repeatedly to select the desired Digital effect.

IC303 is created the control data for digital effect when push the Digital effect key.
Control data are sent to IC301.

Solarization and Nega/posi process are carried out by Encoder block in IC301.

(1). Nega/Posi mode.

Y signal data is level convert process carried out, detail is as follows.

For instance, Y signal level Input level is minimum. 8 bit A/D converter output become **"00000000"**
This data will be converted by following formula.

A/D converter Maximum output level - Input level = Converted Level for Nega/Posi effect.

Example:

A/D/ converter Maximum level is "11111111" (8bit)

Input level is "00000000"

→ "11111111" - "00000000" = "11111111"

(2). Solarization .

During Solarization mode, The certain number of data(bit) are eliminated from Y/C data.

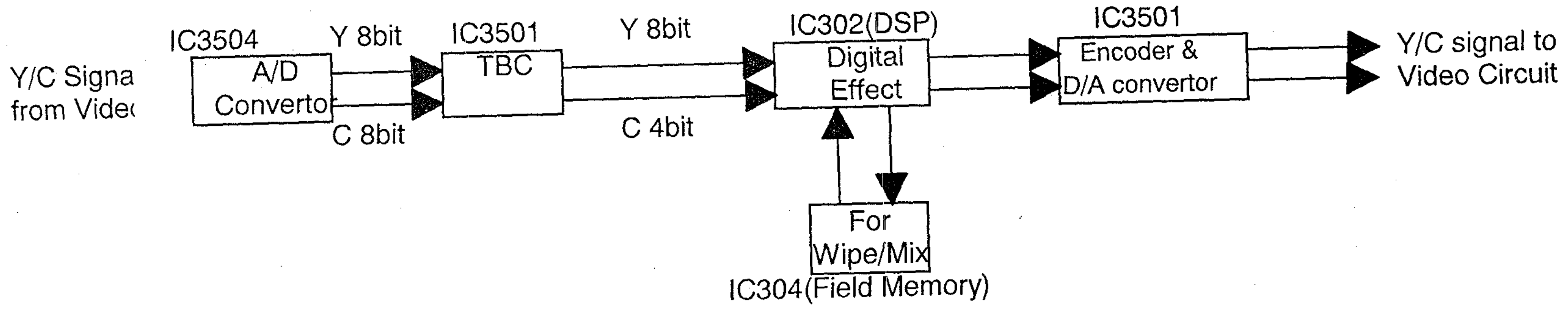
(3).Sepia .

Process for Sepia mode is as follows.

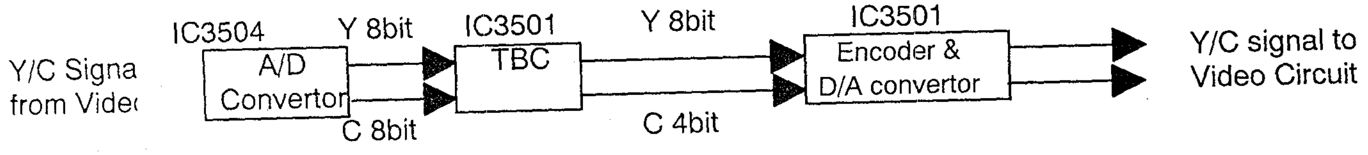
(1). Eliminated the Colour data.
(2). Carrier balance was shifted to magenta.

Signal Flow

1.Playback Mode(TBC on)


Y/C Signa
from Vide
IC3504
A/D
Converto
Y 8bit
C 8bit
IC3501
TBC
Y 8bit
C 4bit
IC302(DSP)
Digital
Effect
For
Wipe/Mix
IC304(Field Memory)
IC3501
Encoder &
D/A convertor
Y/C signal to
Video Circuit

2.Playback Mode(TBC off)


Y/C Signa
from Vide
IC3504
A/D
Convertor
Y 8bit
C 8bit
IC3501
TBC
Y 8bit
C 4bit
IC3501
Encoder &
D/A convertor
Y/C signal to
Video Circuit

SERVICE INFORMATION

1. SERVICE INFORMATION DISPLAY

General Description

This Movie Camera has SERVICE INFORMATION DISPLAY function which facilitates quick trouble-shooting. You can turn on the Service Information Display, by performing the following procedures. This causes the Service Information to be displayed on the EVF.(There are 4 kinds of SERVICE MODE, as shown below.)In the OSD Line Output Mode, Service Information can also be viewed on the TV.

MODE NAME	FUNCTION	How to turn it ON. (Push following keys simultaneously for at least 2 sec.)		
OSD Line Output MODE	· Checking the EVF information on the TV monitor.	DATE/TIME SET (TOP PANEL)	RESET (TOP PANEL)	DATE TIME (SIDE CASE(R))

MODE NAME	FUNCTION	How to turn it ON. (Push following keys simultaneously for at least 2 sec.)		
SERVICE MODE 1	· Remaining Battery A/D Value · Safety Device · Capstan/Cylinder injuctions	DATE/TIME SHIFT (TOP PANEL)	RESET (TOP PANEL)	DATE TIME (SIDE CASE(R))

MODE NAME	FUNCTION	How to turn it ON. (After chosing SERVICE MODE 1 , Push [DATE/TIME] key. (SIDE CASE(R))
SERVICE MODE 2	· Reference Voltage A/D Value · Mechanism position · Serial key code.	DATE/ TIME

MODE NAME	FUNCTION	How to turn it ON. (After chosing SERVICE MODE 2 , Push [DATE/TIME] key. (SIDE CASE(R))
SERVICE MODE 3	· ERROR CODE Display	DATE/ TIME

MODE NAME	FUNCTION	How to turn it ON. (After chosing SERVICE MODE 3 , Push [DATE/TIME] key. (SIDE CASE(R))
SERVICE MODE 4	·PG SHIFTER ADJUSTMENT	DATE/ TIME

ERROR CODE DISPLAY

When undesirable conditions occur, the "ERROR CODE" will automatically be displayed on the EVF, Also the CAMERA LED will flash for a short time, then the power will be turned off. By turning on Service Mode 3, you can check to see what kind of undesirable condition occured, even after the ERROR CODE has disappeared. (To perform the Service Mode 3, do not disconnect the AC adoptor or battery pack, after undesiable condition occured.) To clear the ERROR CODE, disconnect the AC Main Lead or the battery has been diconnected.

This movie camera has the built in Rechargeble Lithum Battery. It maintain the operation of the built-in clock and error code for the Service Mode when the Movie camera turn off. To clear the error code,make shoot the IC6001 pin 25 to GND for reset the IC6001. Indication for built in clock return to initial condition make make reset the IC6001.

Note 1:Contents of all Service Mode(Service Mode 1~Service Mode 4) same as privious models.
So we will issure Techincal information for Service Mode.
Order Number for this document is as follows.
Order Number for Techinical Information : VMD9512M138

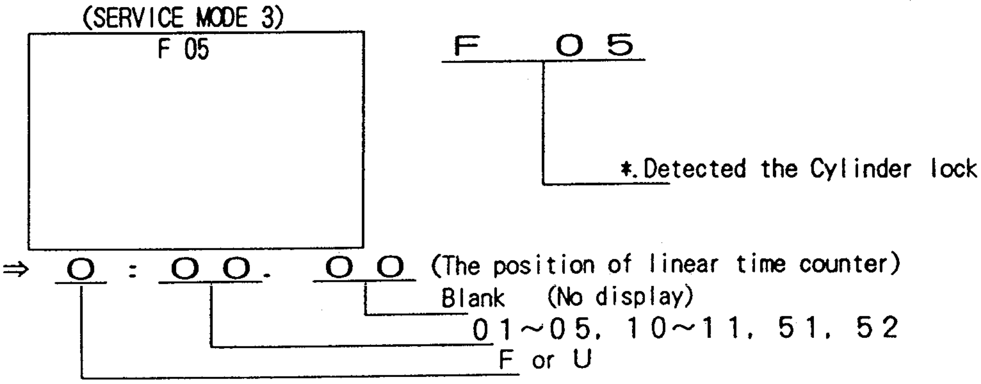
Note 2 : Contents of all Service Mode(Service Mode 1~Service Mode 4) same as privious models.
We will issure Techincal information for Service Mode.
But Service Mode 3 is Error code Display. It is important for Service.
So this service manual contain for this information.

SERVICE MODE 3

After undesirable conditions occured, you can see what kind of error occured by turning on the Service Mode 3.
When you turn on the service mode 3, the error code is displayed on E.V.F.
Also the Camera LED is flashed according to Error code.

Display:
(Example)

Display position ⇒
(See Fig. I)


(SERVICE MODE 3)
F 05
F 05
*.Detected the Cylinder lock
O : O O . O O (The position of linear time counter)
Blank (No display)
01~05, 10~11, 51, 52
F or U

DISPLAY	CONDITION	The Power off timing
F 0 1	T-REEL LOCK	After 1 minute (flashing the LED)
F 0 2	S-REEL LOCK	
F 0 3	UNLOADING LOCK	
F 0 4	LOADING LOCK	
F 0 5	CYLINDER LOCK	
F 5 1	FOCUS MOTOR LOCK	-----------
F 5 2	ZOOM MOTOR LOCK	
U 1 0	DEW DETECTION	After 18 minutes(flashing the LED)
U 2 0	HEAD CLOGGING	Not turning off

Fig. I Error Code

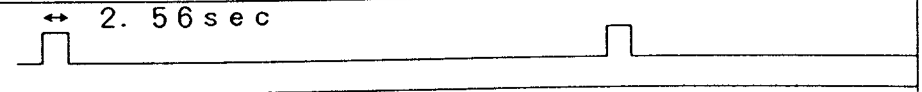
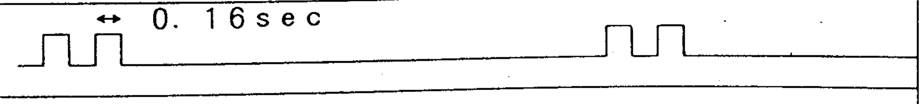
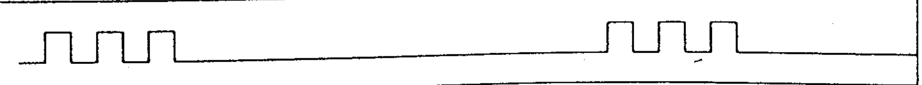
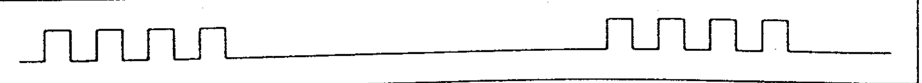
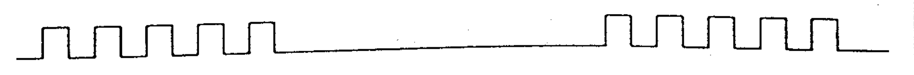
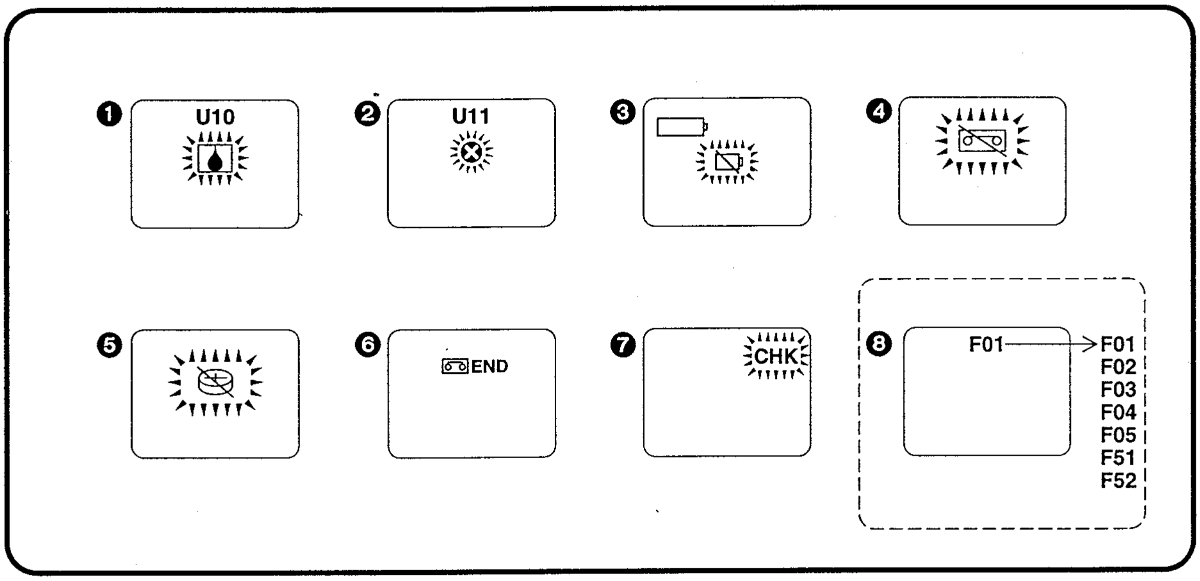
Lock Condition	Power LED Flashing Timming
T-REEL LOCK (F01)	 ↔ 2. 56sec
S-REEL LOCK (F02)	 ↔ 0. 16sec
UNLOADING LOCK (F03)	
LOADING LOCK (F04)	
CYLINDER LOCK (F05)	
OTHERS (U10 & U11)	Power LED is flashed at 1 Hz timing

Fig. J LED Flashing Timing

SECTION 1
GENERAL DESCRIPTIONS ; NV-SX30



Indications in the Finder

■ Warning/Alarm Indications

❶ Condensation (➔ 120)

❷ Video Head Clogging (➔ 120)

❸ Remaining Battery Power
When the last segment of this indication has disappeared, the Movie Camera automatically switches off. Replace the Battery with a fully charged one.

❹ Cassette
No cassette is inserted. Or the tab of the inserted cassette is broken out. Insert a cassette with an intact tab.

❺ Built-in Lithium Battery (➔ 42)
The built-in Lithium Battery is exhausted. Charge it.

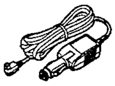
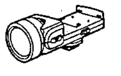
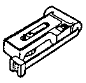
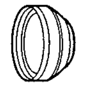
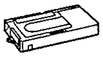
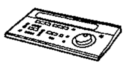
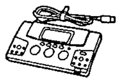
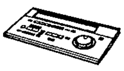
❻ End of the Tape
When the tape has reached its end, this indication appears. Insert a new cassette.

❼ Anti-Ground Recording (➔ 72)

❽ Error Code
(Error codes are information for service personnel.)

- If the [F] Indication with a 2-digit number appears in the Finder, a malfunction has occurred.
- If the indicated error code is between [F01] and [F05], the Movie Camera will turn off automatically one minute after the [CAMERA] Lamp has started to flash.
- If the indication is [F51] or [F52], the Movie Camera will not turn off automatically.

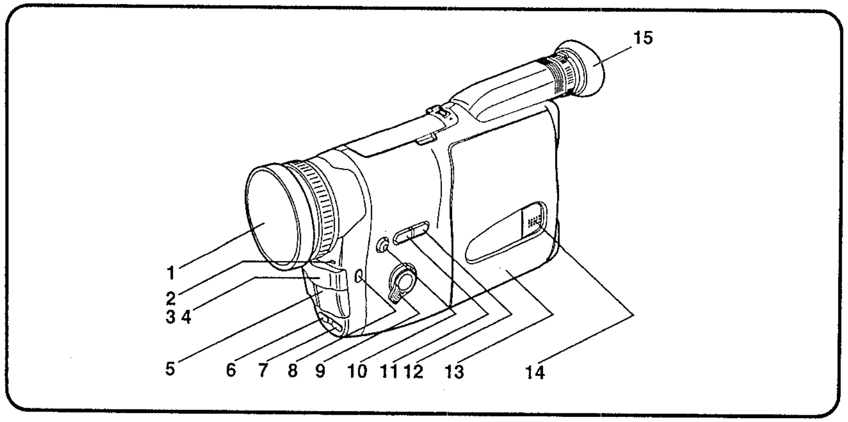
F01: Locked Take Up-Reel
F02: Locked Supply-Reel
F03: Locked Unloading Mechanism
F04: Locked Loading Mechanism
F05: Locked Cylinder
F51: Locked Focus Motor
F52: Locked Zoom Motor

1. VW-VBS10E HHR-V211	2. VW-VBS20E HHR-V212	3. VW-KBC2E	4. VW-ACC2E 	5. VW-K10E	6. VZ-LDCS13E 
7. VW-SK9E 	8. VW-LF43WE	9. VW-LT4314WE 	10.VW-LW4307WE	11.VZ-CT55E	12.VW-TCA7E 
13.VW-VT1E	14.VW-EC310E 	15.VW-EC1E 	16.VW-EC500E 		

Optional Accessories

1. VW-VBS10E (Ni-Cd Battery)
   HHR-V211 (Ni-MH Battery)
2. VW-VBS20E (Ni-Cd Battery)
   HHR-V212 (Ni-MH Battery)
3. Car Battery Charger
4. Car Battery Cord
5. 5-Pin Synchro Cord
6. Video DC Light (requires the Shoe Adaptor for attaching to the Movie Camera)
7. Shoe Adaptor (for attaching the Video DC Light)
8. Filter Kit
9. Tele Conversion Lens
10. Wide Conversion Lens
11. Standard Tripod
12. Cassette Adaptor
13. Video Titler
14. Editing Controller
15. Editing Controller
16. Editing Controller

Some accessories are not available in some countries.


15
1
2
3 4
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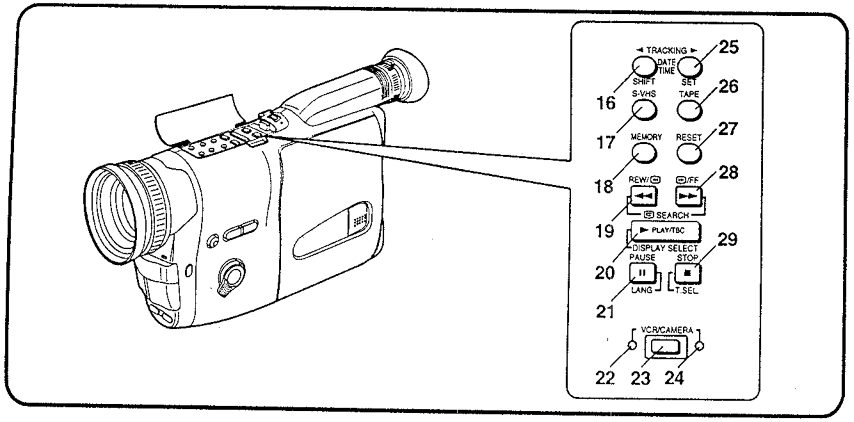
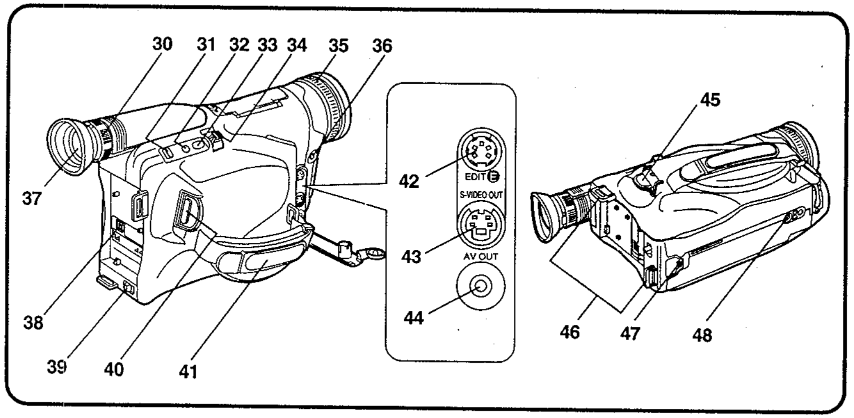
14

Controls and Components

1 Lens Cap
2 Tally Lamp
3 White Balance Sensor
4 Remote Control Sensor
5 Microphone
6 Motion Sensor Button [M.SENSOR]
7 Focus Button [FOCUS]
8 Super Image Stabilizer/Digital Zoom Button [◙/◙]
9 Auto Exposure Selector [AE]
10 Fade Button [FADE]
11 Digital Effect Button [D. EFFECT]
12 White Balance Button [W.B]
13 Cassette Compartment
14 Cassette Compartment Lock Button [LOCK]
15 Eyecup


◄ TRACKING ►
DATE/TIME
SHIFT
SET
S-VHS
TAPE
MEMORY
RESET
REW/◀◀
▶▶/FF
◀◀
▶▶
SEARCH
► PLAY/TBC
DISPLAY SELECT
PAUSE
STOP
LANG
T.SEL
VCR/CAMERA
16
17
18
19
20
21
22
23
24
25
26
27
28
29

16 Date/Time Shift/Tracking Button [DATE/TIME/SHIFT • ◄ TRACKING]
17 Super-VHS/VHS Recording Format Selector Button [S-VHS]
18 Memory Button [MEMORY]
19 Rewind/Review Button [REW/◀◀]
20 Play/Time Base Corrector Button/Display Selector Button [PLAY/TBC/DISPLAY SELECT]
21 Pause Button/Language Selector Button [PAUSE/LANG]
22 VCR (Playback) Mode Lamp [VCR]
23 VCR/Camera Mode Selector Button [VCR/CAMERA]
24 Camera (Recording) Mode Lamp [CAMERA]
25 Date/Time Set/Tracking Button [DATE/TIME/SET • TRACKING ►]
26 Tape Length Selector Button/Remaining Tape Time Button [TAPE]
27 Tape Counter Reset Button [RESET]
28 Fast Foward/Cue Button [▶▶/FF]
29 Stop/Title Selector Button [STOP/T.SEL.]


30
31
32
33
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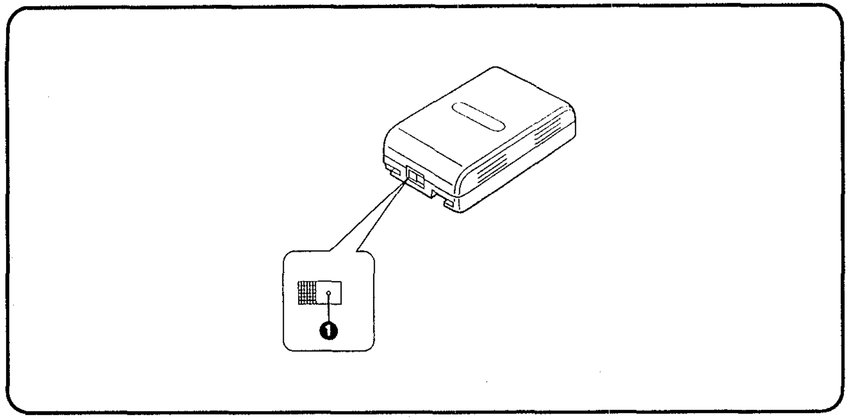
35
36
37
38
39
40
41
42
EDIT
43
S-VIDEO OUT
44
AV OUT
45
46
47
48

30 Eyepiece Corrector Ring
31 Cassette Eject Lever [EJECT ▲]
32 Date/Time/Title Button [DATE/TITLE]
33 Backlight Button [BACKLIGHT]
34 Zoom Lever [W • T]
35 Focus Ring
36 Microphone Socket [MIC]
37 Finder
38 DC Input Socket [DC IN]
39 Battery Eject Lever [BATTERY EJECT ►]
40 Start/Stop Button
41 Grip Belt
42 Edit Socket [EDIT]
43 S-Video Output Socket [S-VIDEO OUT]
44 Audio/Video Output Socket [AV OUT]
45 Power Switch [POWER]
46 Shoulder Strap Holders
47 Power Save Switch [POWER SAVE]
48 Tripod Receptacle



■ Charging Time and Maximum Time for Continuous Recording in the Manual Recording Mode

Battery Model No.	Charging Time	Max. Continuous Recording Time
Supplied	120 min.	60 min.
VW-VBS10E	80 min.	40 min.
VW-VBS20E	160 min.	80 min.
HHR-V211	120 min.	60 min.
HHR-V212	240 min.	120 min.

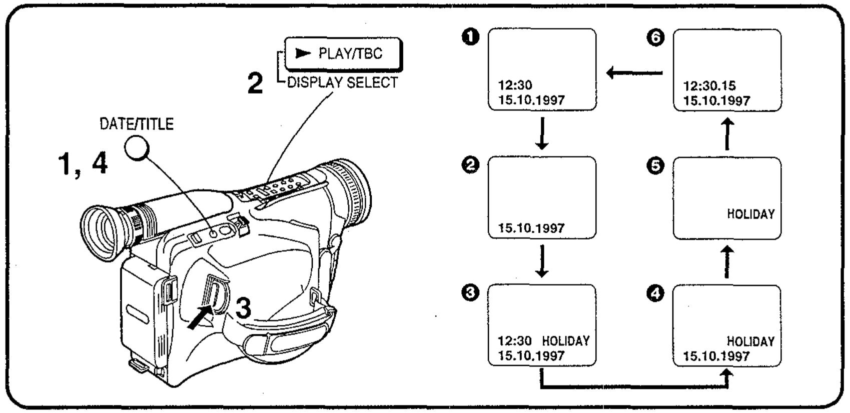
(The times shown in the above chart are approximations.)

- Maximum Continuous Recording Time means the duration of continuous recording performed at an ambient temperature of 20°C and 60% relative humidity. In actual recording, however, the use of the zoom and other functions increases the power consumption, and higher or lower temperatures reduce the Battery's ability to generate electricity. Therefore, the actual recording time per Battery may be approximately 30%–50% shorter than listed above.
- Charging the Battery at a temperature above 35°C also reduces the possible maximum recording time by 30%–50%.

■ Using the Charge Confirmation Marker

You can use this marker to easily distinguish between charged and discharged Batteries.
For example, slide the knob so that the red dot ❶ is visible after charging is completed.

Contains a Nickel-Cadmium Battery. Must be recycled or disposed of properly.



Recording with the Time and/or Date Superimposed in the Picture

1 **Press the [DATE/TITLE] Button to make the Date/Time/Title Indication appear in the Finder.**

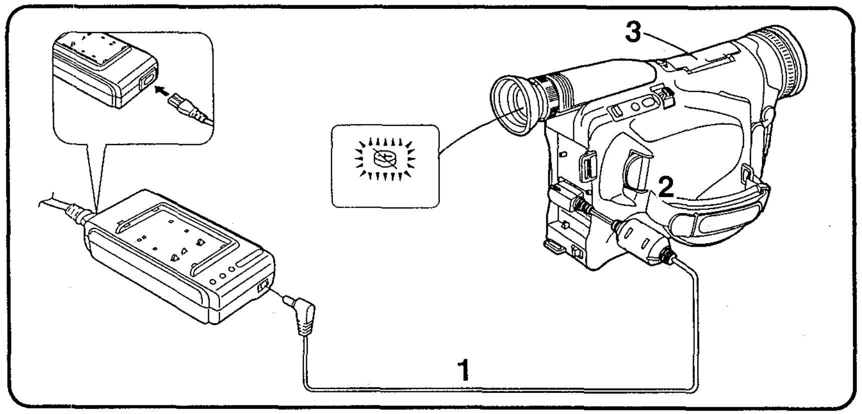
2 **Press the [DISPLAY SELECT] Button repeatedly until the desired indication appears in the Finder.**
- The indications change in the order ❶ to ❻ shown above.
- After turning the Movie Camera off and then on again, the previously selected Date/Time/Title Indication is no longer displayed in the Finder. To make it appear again, press the [DATE/TITLE] Button once.

3 **Press the Start/Stop Button to start recording.**

■ Deleting the Date/Time/Title Indication

4 **During recording or when the Movie Camera is in the Recording Pause Mode, press the [DATE/TITLE] Button to make the Date/Time/Title Indication disappear in the Finder.**

Be sure to turn the Movie Camera off before removing the Battery or disconnecting the AC Adaptor. Disconnecting the power supply while the Movie Camera is on erases the Date/Time/Title Indication stored in memory.



Charging the Built-in Lithium Battery

The internal clock works even when the Movie Camera is turned off, and it consumes power from the built-in lithium battery. When the Movie Camera is in operation, it automatically charges this battery. However, if the Movie Camera is not used for a very long time, the lithium battery can become discharged. The discharged battery can be charged in the following way:

■ Determining Whether the Built-in Lithium Battery Is Discharged

Turn out the [POWER] Switch to turn the Movie Camera on.
- If the [⊗] Indication in the Finder flashes, the built-in lithium battery is discharged.

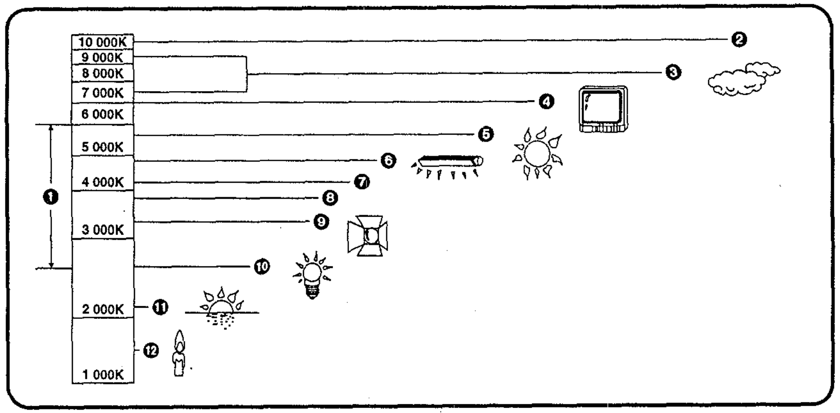
■ Charging the Built-in Lithium Battery and Other Required Operations

1 **Connect the AC Adaptor to the Movie Camera.**

2 **Leave the Movie Camera in this condition for approximately 4 hours. Power is supplied for charging even with the [POWER] Switch turned in.**
- The Charging Lamp on the AC Adaptor does not flash or light. Charging the lithium battery in this way for 4 hours maintains the clock operation for approximately 3 months , chargoing for 13 hours (full charge) maintains it for approximately 1 year.

3 **Set the clock to the current date and time.**

When you charge the built-in lithium battery, we recommend that you turn the Movie Camera off to conserve energy.



Colour Temperature and White Balance Adjustment

Every light source has its own colour temperature measured in Kelvin (K). The higher the Kelvin value, the more bluish the light; the lower the value, the more reddish the light. The Kelvin value is related to the tint of the light, but not directly to its brightness.
The range ① indicated in the illustration above shows the light sources for which this Movie Camera can provide precise white balance adjustment and, therefore, natural colours in the recorded pictures, when using the Full Auto Mode. For light sources outside this range, adjust the white balance manually. Also, additional lighting may be necessary.

① Control range of this Movie Camera's Auto White Balance Adjustment Mode

② Blue sky

③ Cloudy sky (Rain)

④ TV screen

⑤ Sunlight

⑥ White fluorescent lamp

⑦ 2 hours after sunrise or before sunset

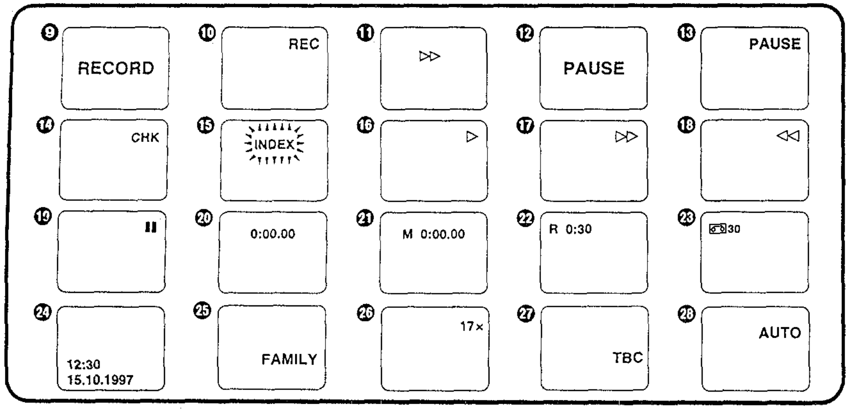
⑧ 1 hour after sunrise or before sunset

⑨ Halogen light bulb

⑩ Incandescent light bulb

⑪ Sunrise or sunset

⑫ Candlelight



■ Recording and Playback Indications

⑨ Recording Mode (large indication)

⑩ Recording Mode (small indication)

⑪ Tape Run Mode

⑫ Recording Pause Mode (large indication)

⑬ Recording Pause Mode (small indication)

⑭ Recording Check Mode

⑮ Index Signal Recording Mode
An index signal is automatically recorded (and the [INDEX] Indication flashes briefly in the Finder while it is being recorded) when you:
- Turn the Movie Camera on and start recording.
- Start recording after inserting a cassette.
- Press the [VCR/CAMERA] Button to change from the VCR to the Camera Mode or vice versa.

The recording of index signals makes it possible to use the VHS Index-Search or Intro Scan Function during playback on a VCR equipped with these functions.
(Refer to the operating instructions of your VCR.)

⑯ Playback Mode/Camera Search Mode

⑰ Fast Forward/Cue Mode

⑱ Rewind/Review Mode Camera Search Mode

⑲ Still Playback Mode

⑳ Elapsed Tape Time
When the tape is rewound further than the Elapsed Tape Time Position [0:00.00], the minus sign [–] appears in front of the Elapsed Tape Time Indication

㉑ Elapsed Tape Time with activated Memory Stop Function

㉒ Remaining Tape Time

㉓ Tape Length

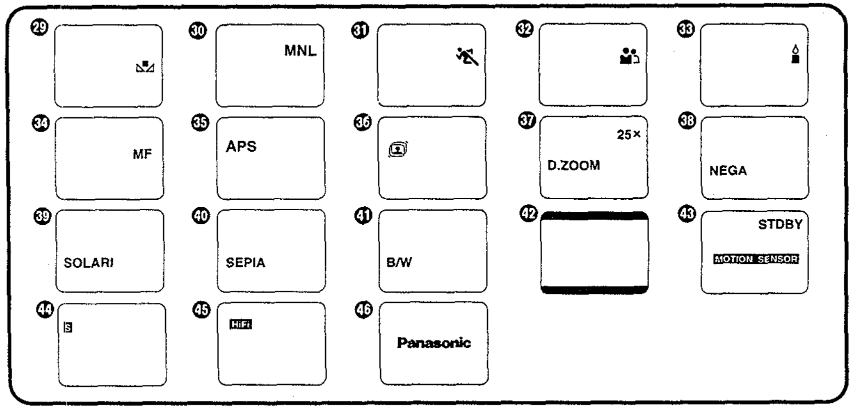
㉔ Date and Time

㉕ Title

㉖ Zoom Magnification

㉗ TBC Function

㉘ Full Auto Recording Mode



㉙ Manual White Balance Mode

㉚ Manual Recording Mode

㉛ Sports Mode

㉜ Portrait Mode

㉝ Low Light Mode

㉞ Manual Focus Mode

㉟ Power Save Mode

㊱ Super Image Stabilizer Mode

㊲ Digital Zoom Mode

㊳ Negative Mode

㊴ Solarisation Mode

㊵ Sepia Mode

㊶ Black-and-White Mode

㊷ Cinema Mode

㊸ Motion-Sensor-Controlled Recording Mode

㊹ Super-VHS Format

㊺ Hi-Fi Mode

㊻ Demonstration Mode

Demonstration Mode

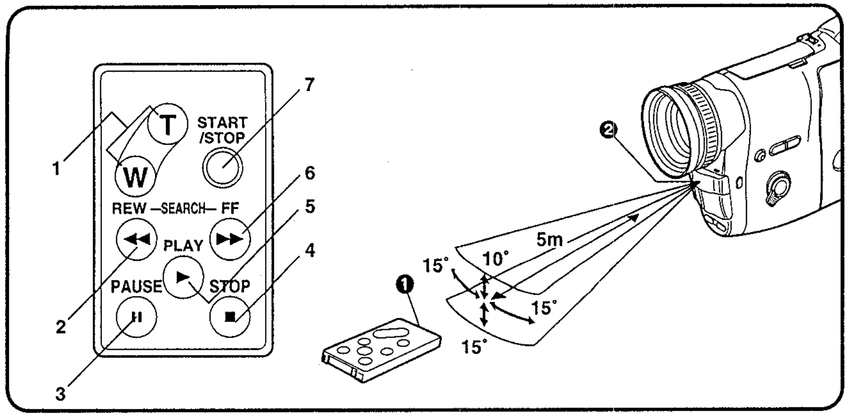
If you connect the AC Adaptor to the Movie Camera, turn the Movie Camera on without any cassette inserted, and leave it on for approximately 10 minutes without performing any operation, it automatically switches over to the Demonstration Mode. The Movie Camera remains in this mode until you turn it off and disconnect the AC Adaptor.

■ Cancelling the Demonstration Mode

Turn in the [POWER] Switch to turn the Movie Camera off. Then turn it out again while pressing the [STOP] Button.

■ Reactivating the Demonstration Mode

While pressing the [PLAY/TBC] Button, turn out the [POWER] Switch. The Demonstration Mode starts after 6 seconds.



Using the Remote Controller

The Remote Controller lets you take part in the action and control the recording operation from in front of the Movie Camera. It is also convenient for controlling the playback functions for playback via a TV or for dubbing.

■ Buttons on the Remote Controller

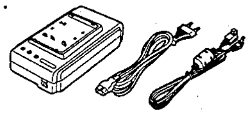
The buttons with the same mark as on the Movie Camera have generally the same function.

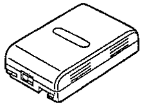
1 **[W•T] Zoom Buttons**
2 **Rewind [◀◀] Button**
3 **Pause [❙❙] Button**
4 **Stop [■] Button**
5 **Playback [▶] Button**
6 **Fast-forward [▶▶] Button**
7 **[START/STOP] Button**

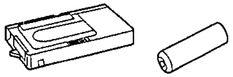
■ Conditions for Correct Operation of the Remote Controller

- The button-type battery must be inserted correctly and not be exhausted.
- The distance to the Movie Camera must not be more than 5 metres.
- The Transmitter Window ❶ on the Remote Controller or the Remote Control Sensor ❷ on the Movie Camera must not be exposed to direct sunlight and not be covered with clothes, etc.

When operating the Zoom Function with the Remote Controller, it is not possible to vary the zooming speed. Also, there is a slight delay between pressing the Zoom Buttons on the Remote Controller and the actual operation of the mechanical zoom function on the Movie Camera.

1.


2.


3.


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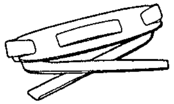

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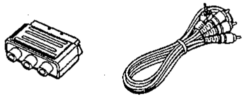
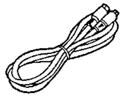
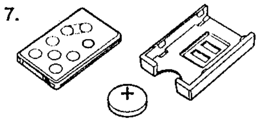


6.


7.


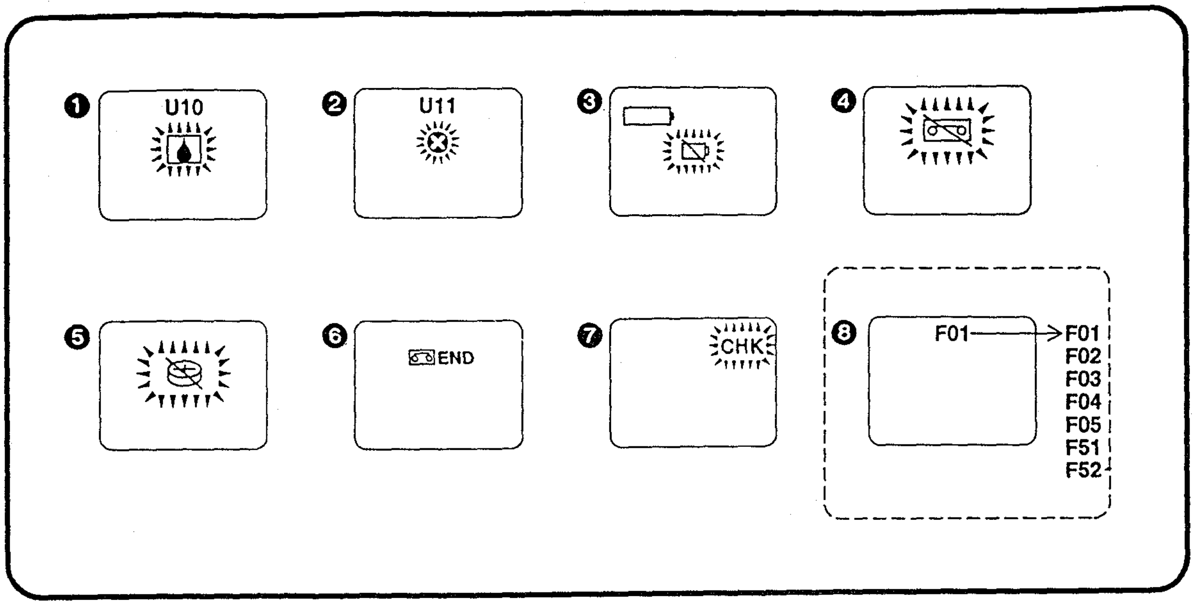
Preparations

This chapter explains the necessary steps before you can start using the Movie Camera.

Standard Accessories

1. **AC Adaptor**
   To supply power to the Movie Camera and to charge the Battery.
   DC Input Cable and AC Mains Cable
   To connect the AC Adaptor to the Movie Camera and to an AC mains socket.
2. **Battery**
   To supply power to the Movie Camera.
3. **Cassette Adaptor and Battery**
4. **Shoulder Strap**
5. **AV Cable**
   To connect the Movie Camera to the Video Input and Audio Input Sockets on a TV or a VCR.
   21-pin Adaptor
   To connect the AV Cable to a TV equipped with a Scart Input Socket.
6. **S-Video Cable**
   To connect the Movie Camera to a TV equipped with an S-Video Input Socket.
7. **Remote Controller, Remote Controller Holder and Button-Type Battery**

SECTION 1
GENERAL DESCRIPTIONS ; NV-SX50



Indications in the Finder

■ Warning/Alarm Indications

❶ Condensation

❷ Video Head Clogging

❸ Remaining Battery Power

When the last segment of this indication has disappeared, the Movie Camera automatically switches off. Replace the Battery with a fully charged one.

❹ Cassette

No cassette is inserted. Or the tab of the inserted cassette is broken out. Insert a cassette with an intact tab.

❺ Built-in Lithium Battery

The built-in Lithium Battery is exhausted. Charge it.

❻ End of the Tape

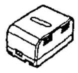
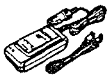
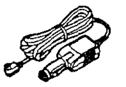
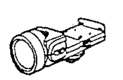
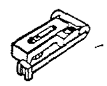
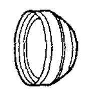
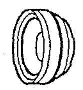
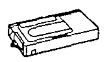
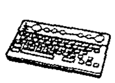
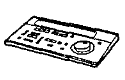
When the tape has reached its end, this indication appears. Insert a new cassette.

❼ Anti-Ground Recording

❽ Error Code

(Error codes are information for service personnel.)
If the [F] Indication with a 2-digit number appears in the Finder, a malfunction has occurred.
If the indicated error code is between [F01] and [F05], the Movie Camera will turn off automatically one minute after the [CAMERA] Lamp has started to flash.
If the indication is [F51] or [F52], the Movie Camera will not turn off automatically.

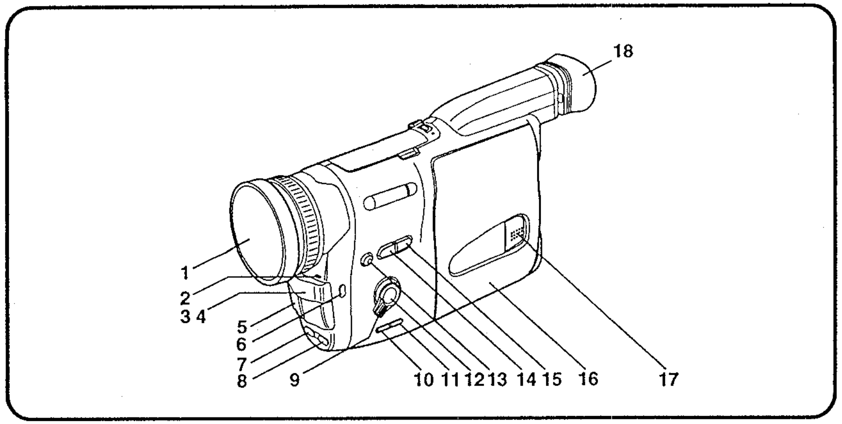
F01: Locked Take Up-Reel
F02: Locked Supply-Reel
F03: Locked Unloading Mechanism
F04: Locked Loading Mechanism
F05: Locked Cylinder
F51: Locked Focus Motor
F52: Locked Zoom Motor

1. VW-VBS10E HHR-V211 	2. VW-VBS20E HHR-V212 	3. VW-KBC2E 	4. VW-ACC2E 	5. VW-K10E 	6. VZ-LDCS13E 
7. VW-SK9E 	8. VW-LF43WE 	9. VW-LT4314WE 	10.VW-LW4307WE 	11.VZ-CT55E 	12.VW-TCA7E 
13.VW-VT1E 	14.VW-EC310E 	15.VW-EC1E 	16.VW-EC500E 		

Optional Accessories

1. VW-VBS10E (Ni-Cd Battery)
   HHR-V211 (Ni-MH Battery)
2. VW-VBS20E (Ni-Cd Battery)
   HHR-V212 (Ni-MH Battery)
3. Car Battery Charger
4. Car Battery Cord
5. 5-Pin Synchro Cord
6. Video DC Light (requires the Shoe Adaptor for attaching to the Movie Camera)
7. Shoe Adaptor (for attaching the Video DC Light)
8. Filter Kit
9. Tele Conversion Lens
10. Wide Conversion Lens
11. Standard Tripod
12. Cassette Adaptor
13. Video Titler
14. Editing Controller
15. Editing Controller
16. Editing Controller

Some accessories are not available in some countries.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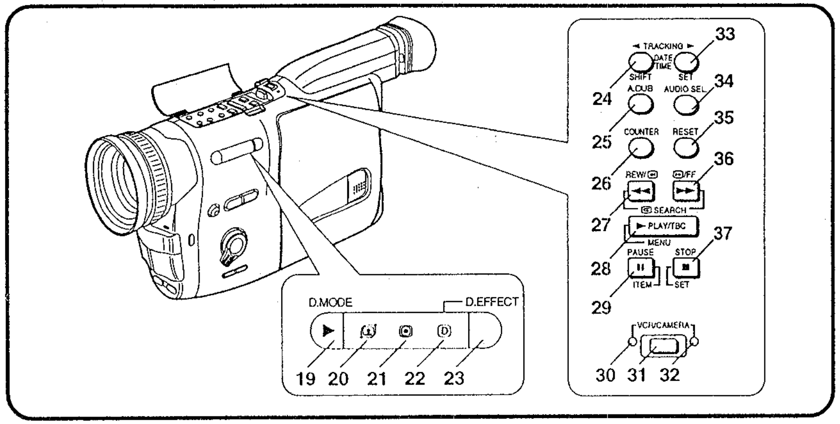
Controls and Components

1 Lens Cap
2 Tally Lamp
3 White Balance Sensor
4 Remote Control Sensor
5 Microphone
6 Focus Button [FOCUS]
7 Shutter Speed/Iris Control Button [◀ SHUTTER/IRIS]
8 Shutter Speed/Iris Control Button [SHUTTER/IRIS ▶]
9 Auto Exposure Selector [AE]
10 Digital Image Store Button [STORE]
11 Digital Image Insert Button [START/STOP]
12 Shutter/Iris Button [SHUTTER/IRIS]
13 Fade Button [FADE]
14 Date /Time/Title Button [DATE/TITLE]
15 White Balance Button [W.B]
16 Cassette Compartment
17 Cassette Compartment Lock Button [LOCK]
18 Eyecup


◀ TRACKING ▶
DATE/TIME
SHIFT
SET
A.DUB
AUDIO SEL.
COUNTER
RESET
REW/⏪
⏩/FF
⏪ SEARCH
▶ PLAY/TBC
MENU
PAUSE
STOP
ITEM
SET
VCR/CAMERA
D.MODE
D.EFFECT
33
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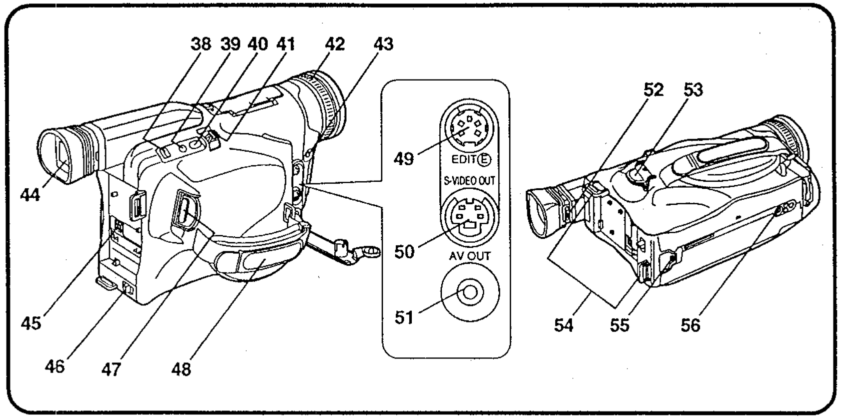
19 20 21 22 23
30 31 32

19 Digital Mode Selector Button [D.MODE]
20 Super Image Stabilizer Indication Lamp [⊡]
21 Digital Zoom Indication Lamp [◉]
22 Digital Effect Indication Lamp [Ⓓ]
23 Digital Effect Selector Button [D.EFFECT]
24 Date/Time Shift/Tracking Button [DATE/TIME/SHIFT • ◀ TRACKING]
25 Audio Dubbing Button [A.DUB]
26 Counter Button [COUNTER]
27 Rewind/Review Button [REW/⏪]
28 Play/TBC Button/Menu Button [PLAY/TBC/MENU]
29 Pause Button/Item Selector Button [PAUSE/ITEM]
30 VCR (Playback) Mode Lamp [VCR]
31 VCR/Camera Mode Selector Button [VCR/CAMERA]
32 Camera (Recording) Mode Lamp [CAMERA]
33 Date/Time Set/Tracking Button [DATE/TIME/SET • TRACKING ▶]
34 Audio Mode Selector Button [AUDIO SEL.]
35 Tape Counter Reset Button [RESET]
36 Fast Forward/Cue Button [⏩/FF]
37 Stop Button/Item Set Button [STOP/SET]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EDIT Ⓔ
S-VIDEO OUT
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AV OUT
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52 53
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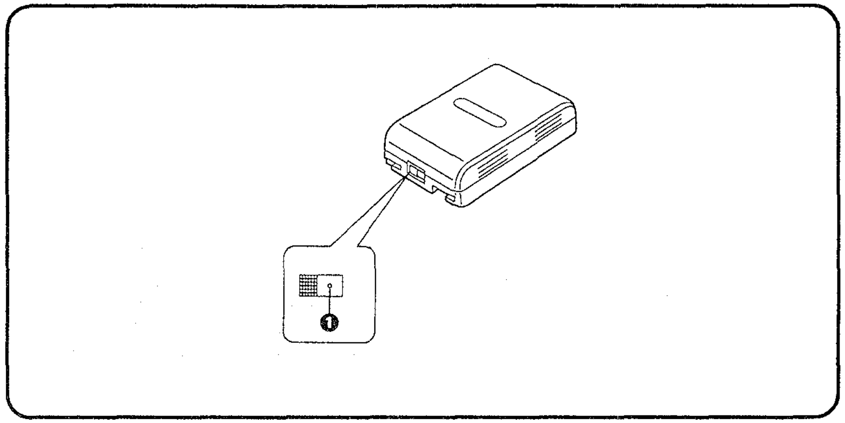
55
56

38 Cassette Eject Lever [EJECT ▲]
39 Snapshot Recording Button [SNAPSHOT REC]
40 Backlight Button [BACKLIGHT]
41 Zoom Lever [W • T]
42 Focus Ring
43 Microphone Socket [MIC]
44 Finder
45 DC Input Socket [DC IN]
46 Battery Eject Lever [BATTERY EJECT ▶]
47 Recording Start/Stop Button
48 Grip Belt
49 Edit Socket [EDIT]
50 S-Video Output Socket [S-VIDEO OUT]
51 Audio-Video Output Socket [AV OUT]
52 Eyepiece Corrector Control Knob
53 Power Switch [POWER]
54 Shoulder Strap Holders
55 Power Save Switch [POWER SAVE]
56 Tripod Receptacle



■ Charging Time and Maximum Time for Continuous Recording in the Manual Recording Mode

Battery Model No.	Charging Time	Max. Continuous Recording Time
supplied	120 Min.	60 Min.
VW-VBS10E	80 Min.	40 Min.
VW-VBS20E	160 Min.	80 Min.
HHR-V211	120 Min.	60 Min.
HHR-V212	240 Min.	120 Min.

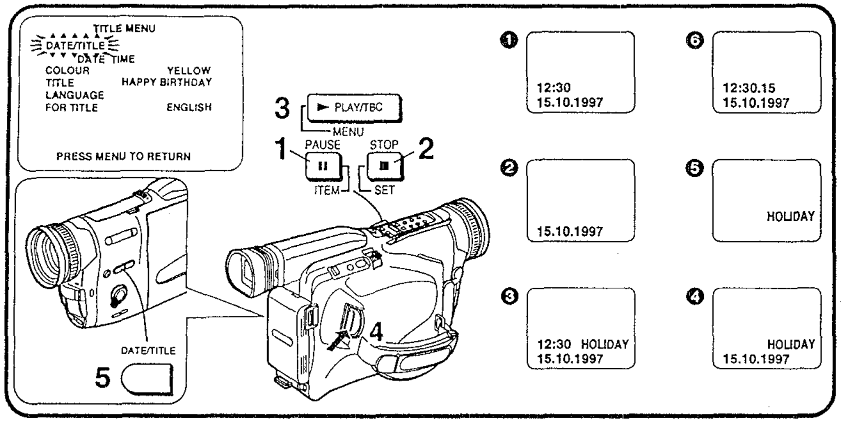
(The times shown in the above chart are approximations.)

- Maximum Continuous Recording Time means the duration of continuous recording performed at an ambient temperature of 20°C and 60% relative humidity. In actual recording, however, the use of the zoom and other functions increases the power consumption, and higher or lower temperatures reduce the Battery's ability to generate electricity. Therefore, the actual recording time per Battery may be approximately 30%–50% shorter than listed above.
- Charging the Battery at a temperature above 35°C also reduces the possible maximum recording time by 30%–50%.

■ Using the Charge Confirmation Marker

You can use this marker to easily distinguish between charged and discharged Batteries.
For example, slide the knob so that the red dot ❶ is visible after charging is completed.

Contains a Nickel-Cadmium Battery. Must be recycled or disposed properly.



Recording with the Time and/or Date Superimposed in the Picture

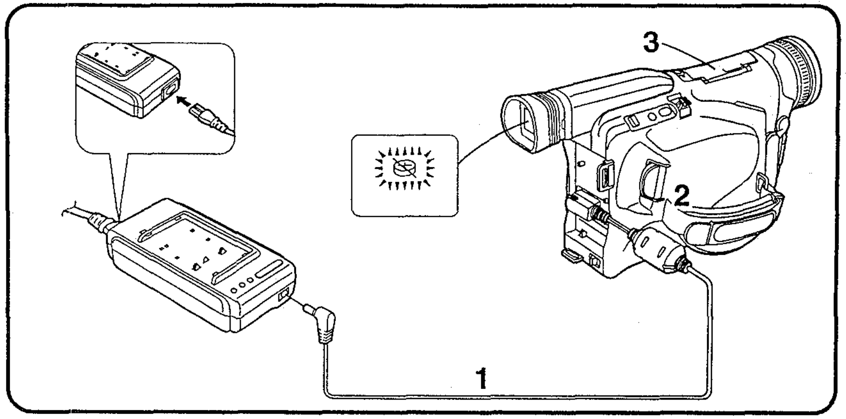
After displaying the Title Menu... (→ 30)

1. **Press the [ITEM] Button repeatedly until [DATE/TITLE] flashes.**
2. **Press the [SET] Button repeatedly until the desired indication appears on the Title Menu.**
   - The indications change in the order ❶ to ❻.
     ❶ Date and Time ⟶ ❷ Date ⟶
     ❸ Date, Time and Title ⟶ ❹ Date and Title ⟶
     ❺ Title ⟶ ❻ Date and Time with seconds ⟶
   - After turning the Movie Camera off and then on again, the previously selected Date/Time/Title Indication is no longer displayed in the Finder. To make it appear again, press the [DATE/TITLE] Button once.
3. **Press the [MENU] Button twice to exit the Menu Function.**
4. **Press the Recording Start/Stop Button to start recording.**

■ Deleting the Date/Time/Title Indication

5. **During recording or when the Movie Camera is in the Recording Pause Mode, press the [DATE/TITLE] Button to make the Date/Time/Title Indication disappear in the Finder.**

Be sure to turn the Movie Camera off before removing the Battery or disconnecting the AC Adaptor. Disconnecting the power supply while the Movie Camera is on erases the Date/Time/Title Indication stored in memory.



Charging the Built-in Lithium Battery

The internal clock works even when the Movie Camera is turned off, and it consumes power from the built-in lithium battery. When the Movie Camera is in operation, it automatically charges this battery. However, if the Movie Camera is not used for a very long time, the lithium battery can become discharged. The discharged battery can be charged in the following way:

■ Determining Whether the Built-in Lithium Battery Is Discharged

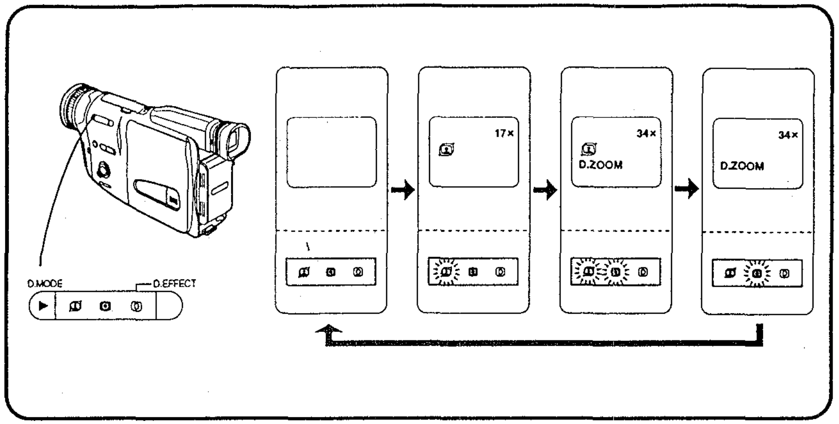
Turn out the [POWER] Switch to turn the Movie Camera on.

- If the [⊗] Indication in the Finder flashes, the built-in lithium battery is discharged.

■ Charging the Built-in Lithium Battery and Other Required Operations

1. **Connect the AC Adaptor to the mains and to the Movie Camera.**
2. **Leave the Movie Camera in this condition for approximately 4 hours. Power is supplied for charging even with the [POWER] Switch turned in.**
   - The Charging Lamp on the AC Adaptor does not flash or light. Charging the lithium battery in this way for 4 hours maintains the clock operation for approximately 3 months , charging for 13 hours (full charge) maintains it for approximately 1 year.
3. **Set the clock to the current date and time.**

When you charge the built-in lithium battery, we recommend that you turn the Movie Camera off to conserve energy.



About the Super Image Stabilizer and Digital Zoom Functions

You can activate both of these functions with the [D.MODE] Button. Repeatedly pressing this button changes these functions in the order shown above. To cancel the selected function, press the [D.MODE] Button repeatedly until neither of the 2 indications are displayed in the Finder.

1. Super Image Stabilizer Function [📷]

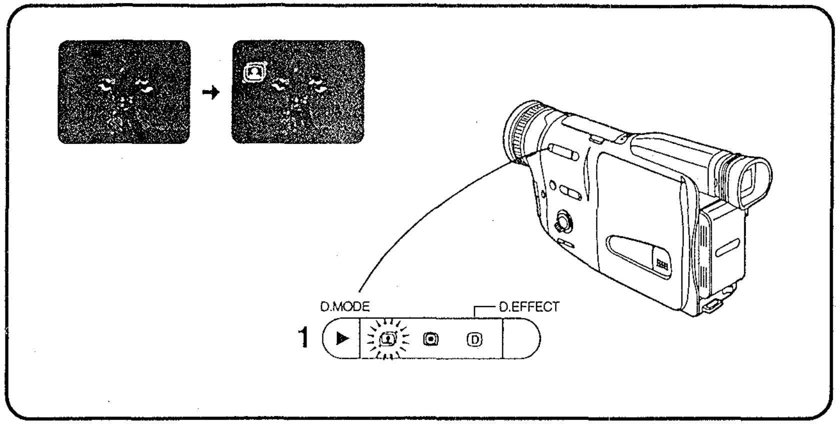
This function compensates for camera-shake during hand-held recording and ensures stable pictures. It is especially practical for the following recording situations:

- Zooming in on a distant subject.
- Recording while walking.
- Recording from inside a moving car.

2. Digital Zoom Function [D.ZOOM]

This function is convenient, when you record a very distant subject and want to enlarge it even further than is possible with the normal (optical) zoom function.

If you press the [D.MODE] Button to activate the Super Image Stabilizer Function or the Digital Zoom Function while one of the following 8 Digital Effect Functions – Mix, Wipe, Strobe, Gain-up, Nega, Solari, Sepia, Black-and-White – is being used, this cancels the selected Digital Effect Function.



Using the Super Image Stabilizer Function

1 Press the [D.MODE] Button so that the [📷] Indication Lamp next to the button lights.

- The [📷] Indication appears in the Finder.
- When you use this function, the shutter speed is automatically adjusted between 1/125 s and 1/50 s depending on the brightness of the scene.

■ Cancelling the Super Image Stabilizer Function

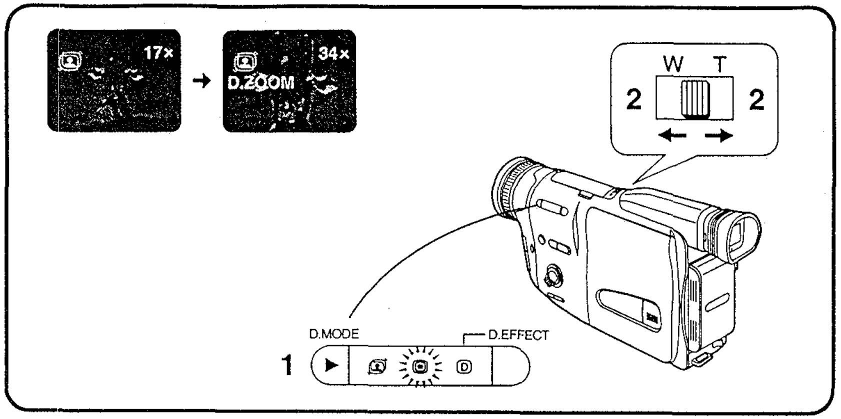
Press the [D.MODE] Button repeatedly until neither the [📷] nor the [◙] Indication Lamp next to the button is lit any more (and neither the [📷] nor the [D.ZOOM] Indication is displayed any more in the Finder).
Cancelling the Super Image Stabilizer Function also resets the shutter speed to 1/50 s. However, after selecting the Sports Mode or the Portrait Mode, cancelling the Super Image Stabilizer Function does not reset the shutter speed to 1/50 s.

■ In the following recording conditions, the picture stabilizing effect may not be sufficient:

- Subjects with horizontal or vertical stripes
- Flat subjects
- Dark subjects (In this case, the [📷] Indication flashes in the Finder. Increase the amount of light)
- Subjects under many fluorescent lamps
- Fast-moving subjects
- Subjects with a flat background

■ When Using the Super Image Stabilizer Function, the Picture Changes as Follows:

- The picture quality deteriorates slightly.
- Under fluorescent lamps, the picture brightness may fluctuate and the colours may be unnatural.



Using the Digital Zoom Function

1 Press the [D.MODE] Button repeatedly until the [◙] Indication Lamp next to the button lights.

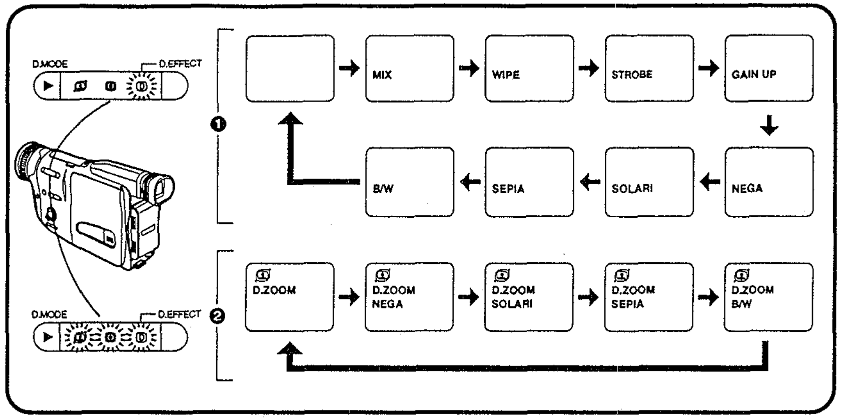
- The [D.ZOOM] Indication appears in the Finder.

2 Push the [W • T] Zoom Lever towards [T] or [W] to zoom in or out as desired.

- With the Digital Zoom Function activated, you can optically zoom between 1× (wide-angle) and 17× and digitally between 18× and 34×. The changeover between optical and digital zooming is automatic.
- The zooming speed is variable. The farther you push the [W • T] Lever toward [W] or [T], the faster the zooming speed becomes.
- When using the Digital Zoom Function, the picture quality is somewhat reduced.

■ Cancelling the Digital Zoom Function

Press the [D.MODE] Button so that neither the [◙] nor the [📷] Indication Lamp next to the button is lit any more (and neither the [D.ZOOM] nor the [📷] Indication is displayed any more in the Finder).

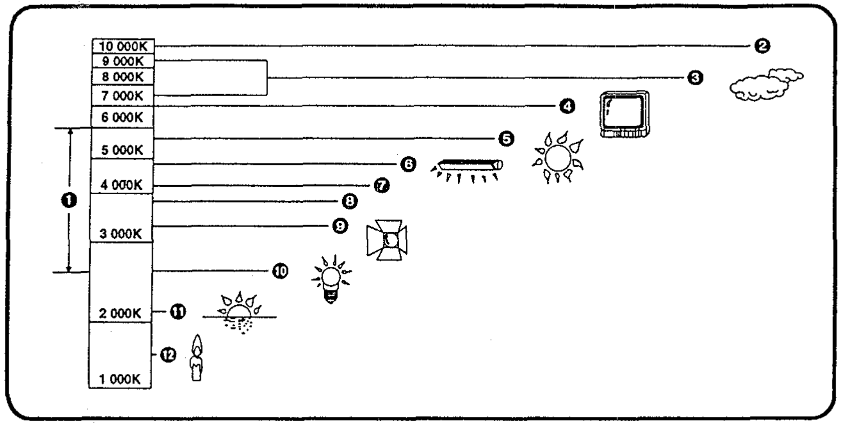


About the Digital Effect Functions

The following 8 functions make it possible to enhance your recordings with special picture effects. You can select any of these Digital Effect Functions by repeatedly pressing the [D.EFFECT] Button. These functions change in the order ❶ shown above. To cancel the selected Digital Effect Function, press the [D.EFFECT] Button repeatedly until none of the 8 Indications are displayed in the Finder.

1. **Mix Function [MIX]**
2. **Wipe Function [WIPE]**
3. **Strobe Function [STROBE]**
4. **Gain-up Function [GAIN UP]**
5. **Negative Function [NEGA] (→ 104)**
6. **Solarisation Function [SOLARI] (→ 104)**
7. **Sepia Function [SEPIA] (→ 104)**
8. **Black-and-White Function [B/W] (→ 104)**

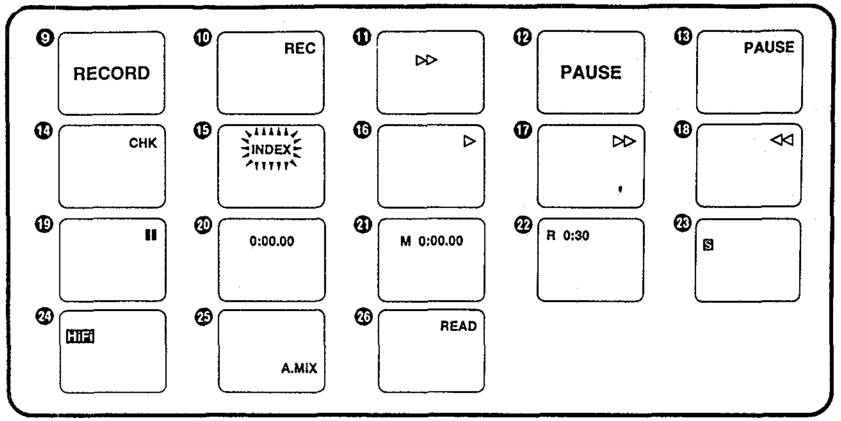
If you press the [D.EFFECT] Button repeatedly to select a Digital Effect Function while the Super Image Stabilizer or Digital Zoom Function is activated, you can select only from among the following 4 functions – Negative, Solarisation, Sepia or Black-and-White – in the order ❷ shown above.



Colour Temperature and White Balance Adjustment

Every light source has its own colour temperature measured in Kelvin (K). The higher the Kelvin value, the more bluish the light; the lower the value, the more reddish the light. The Kelvin value is related to the tint of the light, but not directly to its brightness.
The range ❶ indicated in the illustration above shows the light sources for which this Movie Camera can provide precise white balance adjustment and, therefore, natural colours in the recorded pictures, when using the Full Auto Mode. For light sources outside this range, adjust the white balance manually.
Also, additional lighting may be necessary.

❶ Control range of this Movie Camera's Auto White Balance Adjustment Mode
❷ Blue sky
❸ Cloudy sky (Rain)
❹ TV screen
❺ Sunlight
❻ White fluorescent lamp
❼ 2 hours after sunrise or before sunset
❽ 1 hour after sunrise or before sunset
❾ Halogen light bulb
❿ Incandescent light bulb
⓫ Sunrise or sunset
⓬ Candlelight



■ Recording and Playback Indications

❾ Recording Mode (large indication)
❿ Recording Mode (small indication)
⓫ Tape Run Mode
⓬ Recording Pause Mode (large indication)
⓭ Recording Pause Mode (small indication)
⓮ Recording Check Mode
⓯ Index Signal Recording Mode

An index signal is automatically recorded (and the [INDEX] Indication flashes briefly in the Finder while it is being recorded) when you:

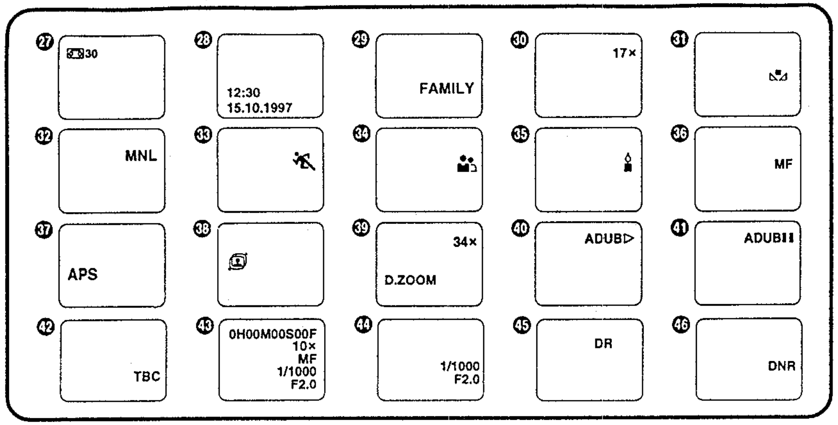
- Turn the Movie Camera on and start recording.
- Start recording after inserting a cassette.
- Press the [VCR/CAMERA] Button to change from the VCR to the Camera Mode or vice versa.

The recording of index signals makes it possible to use the VHS Index Search or Intro Scan Function during playback on a VCR equipped with these functions.
(Refer to the operating instructions of your VCR.)

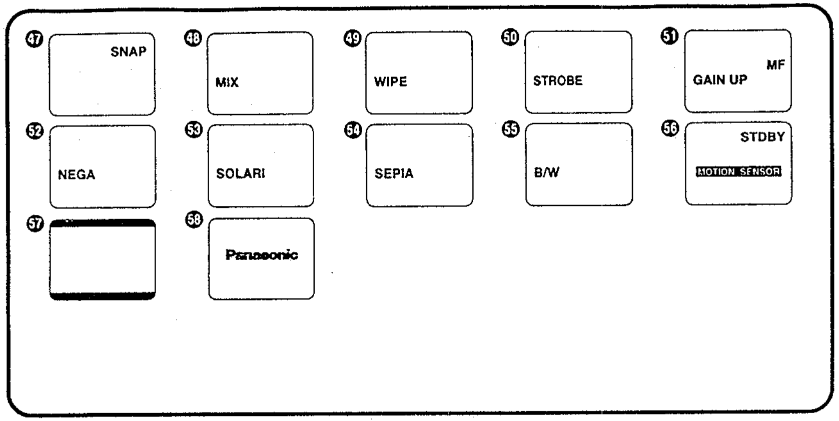
⓰ Playback Mode /Camera Search Mode
⓱ Fast Forward/Cue Mode
⓲ Rewind/Review Mode / Camera Search Mode
⓳ Still Playback Mode
⓴ Elapsed Tape Time

When the tape is rewound further than the Elapsed Tape Time Position [0:00.00], the minus sign [–] appears in front of the Elapsed Tape Time Indication

㉑ Elapsed Tape Time with activated Memory Stop Function
㉒ Remaining Tape Time
㉓ S-VHS Format
㉔ Hi-Fi Mode
㉕ Audio Mix Mode
㉖ During Reading of VITC Address



- ㉗ Tape Length
- ㉘ Date and Time
- ㉙ Title
- ㉚ Zoom Magnification
- ㉛ Manual White Balance Mode
- ㉜ Manual Recording Mode
- ㉝ Sports Mode
- ㉞ Portrait Mode
- ㉟ Low Light Mode
- ㊱ Manual Focus Mode
- ㊲ Power Save Mode
- ㊳ Super Image Stabilizer Mode
- ㊴ Digital Zoom Mode
- ㊵ Audio Dubbing Mode
- ㊶ Audio Dubbing Pause Mode
- ㊷ Time Base Corrector Indication
- ㊸ VITC Value and Camera Information
- ㊹ Shutter Speed and/Iris Value
- ㊺ VITC Recording with Data Recording
- ㊻ Digital Noise Reduction Mode



- ㊼ Snapshot Recording Mode
- ㊽ Mix Mode
- ㊾ Wipe Mode
- ㊿ Strobe Mode
- (51) Gain-up Mode
- (52) Negative Mode
- (53) Solarisation Mode
- (54) Sepia Mode
- (55) Black-and-White Mode
- (56) Motion-Sensor-Controlled Recording Mode
- (57) Cinema Mode
- (58) Demonstration Mode

Demonstration Mode

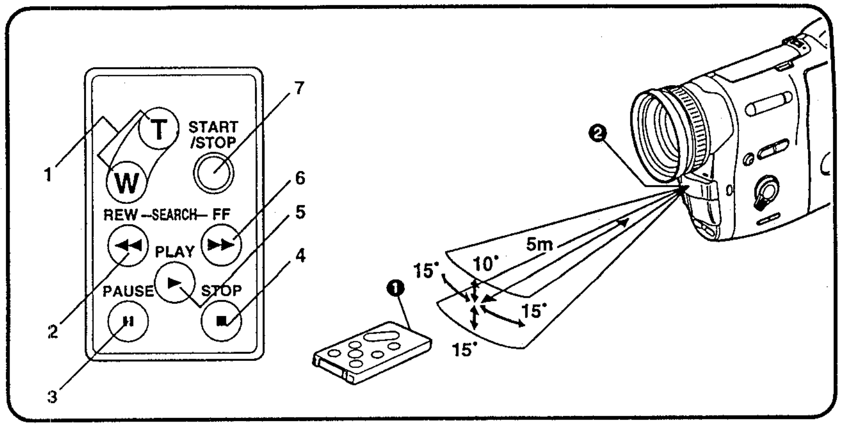
If you connect the AC Adaptor to the Movie Camera, turn the Movie Camera on without any cassette inserted, and leave it on for approximately 10 minutes without performing any operation, it automatically switches over to the Demonstration Mode. The Movie Camera remains in this mode until you turn it off and disconnect the AC Adaptor.

■ Cancelling the Demonstration Mode

Turn in the [POWER] Switch to turn the Movie Camera off. Then turn it out again while pressing the [STOP] Button.

■ Reactivating the Demonstration Mode

While pressing the [PLAY/TBC] Button, turn out the [POWER] Switch. The Demonstration Mode starts after 6 seconds.



Using the Remote Controller

The Remote Controller lets you take part in the action and control the recording operation from in front of the Movie Camera. It is also convenient for controlling the playback functions for playback via a TV or for dubbing.

■ Buttons on the Remote Controller

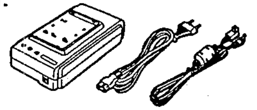
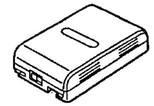
The buttons with the same mark as on the Movie Camera have generally the same function.

1 **Zoom Buttons [W • T]**
2 **Rewind Button [◀◀]**
3 **Pause Button [❚❚]**
4 **Stop Button [■]**
5 **Playback Button [▶]**
6 **Fast-forward Button [▶▶]**
7 **Recording Start/Stop Button [START/STOP]**

■ Conditions for Correct Operation of the Remote Controller

- The button-type battery must be inserted correctly and not be exhausted.
- The distance to the Movie Camera must not be more than 5 metres.
- The Transmitter Window ❶ on the Remote Controller or the Remote Control Sensor ❷ on the Movie Camera must not be exposed to direct sunlight and not be covered with clothes, etc.

When operating the Zoom Function with the Remote Controller, it is not possible to vary the zooming speed. Also, there is a slight delay between pressing the Zoom Buttons on the Remote Controller and the actual operation of the mechanical zoom function on the Movie Camera.

1.

2.

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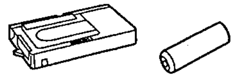
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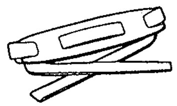
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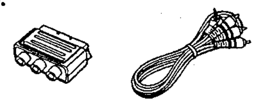
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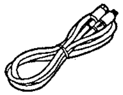
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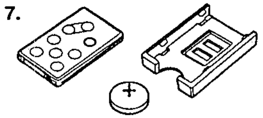


Preparations

This chapter explains the necessary steps before you can start using the Movie Camera.

Standard Accessories

1. **AC Adaptor**
   To supply power to the Movie Camera and to charge the Battery.
   DC Input Cable and AC Mains Cable
   To connect the AC Adaptor to the Movie Camera and to an AC mains socket.
2. **Battery**
   To supply power to the Movie Camera.
3. **Cassette Adaptor and Battery**
4. **Shoulder Strap**
5. **AV Cable**
   To connect the Movie Camera to the Video Input and Audio Input Sockets on a TV or a VCR.
   21-pin Adaptor
   To connect the AV Cable to a TV equipped with a Scart Input Socket.
6. **S-Video Cable**
   To connect the Movie Camera to a VCR equipped with an S-Video Input Socket.
7. **Remote Controller, Remote Controller Holder and Button-Type Battery**

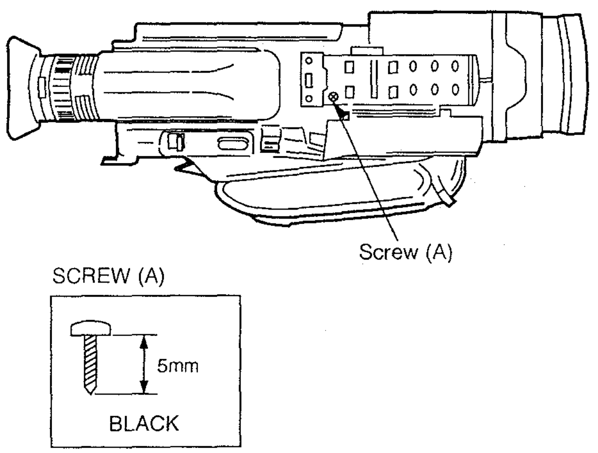
SECTION 2
ADJUSTMENT PROCEDURES (NV-SX30)

2-1. DISASSEMBLY PROCEDURES

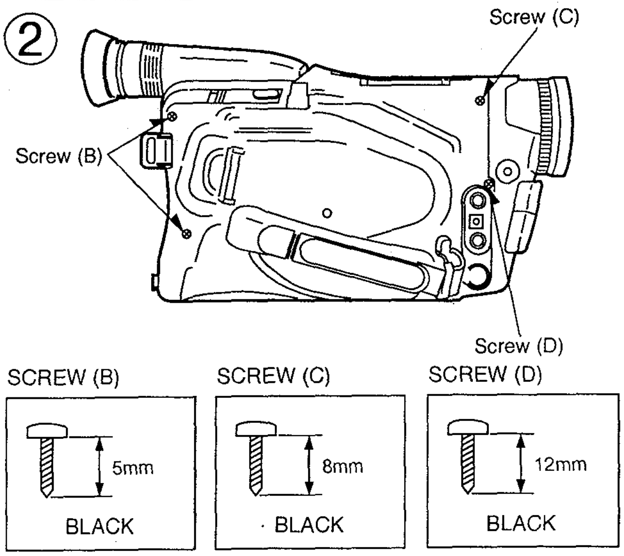
Flow-Chart for Disassembly procedure.

	ITEM/PARTS	Fig.	
[1]	Side Case (L)	① ② ③ ④	1-SCREW (A) 4-SCREW (B/C/D) 5-SCREW (E) Slightly open the side case (L) Disconnect (Connector A)
[2]	Cassette Cover	⑤	2-SCREW (F)
[3]	Side Case (R)	⑥ ⑦ ⑧ ⑨	1-SCREW (G) Disconnect (Connector B) 2-SCREW (H/I) Unlock---3 Locking Tabes Remove the side case (R)
[4]	EVF Unit	⑩	Unlock---2 Locking Tabes Disconnect (Connector C)
[5]	Front Case	⑪ ⑫	1-SCREW (J) Unlock---3 Locking Tabes Disconnect (Connector D)
[6]	Main C.B.A.	⑬ ⑭	2-SCREW (K/L) Disconnect (Connector E/F/G/H/I/J) Disconnect (Connector K/L)
[7]	Lens Unit	⑮	2-SCREW (M)
[8]	S/EDIT C.B.A. & MIC/AV C.B.A.	⑯ ⑰ ⑱	2-SCREW (N/O) Disconnect (Connector M/N) Remove the S/EDIT C.B.A. Remove the MIC/AV C.B.A.
[9]	ECM/REMO/IR C.B.A.	⑲	2-SCREW (P) Remove the ECM/REMO/IR C.B.A.
[10]	MF LING Unit	⑳	4-SCREW (Q/R)
[11]	E.V.F. C.B.A.	㉑ ㉒	3-SCREW (S) Disconnect (Connector P/Q/R)

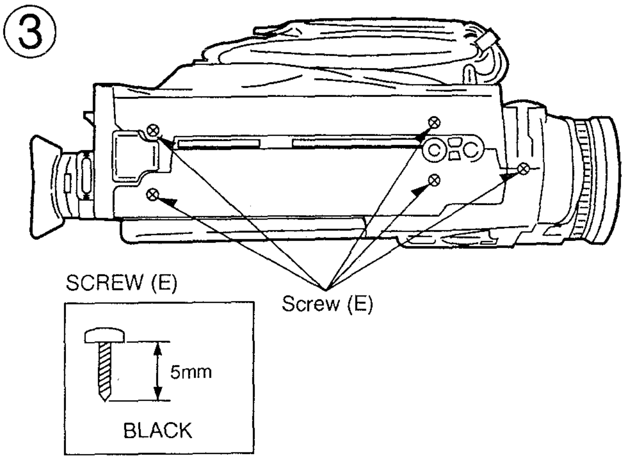
①


Screw (A)
SCREW (A)
5mm
BLACK

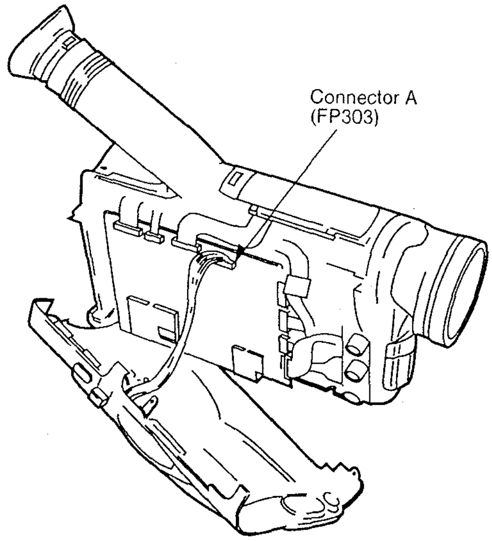
②


Screw (C)
Screw (B)
Screw (D)
SCREW (B)
5mm
BLACK
SCREW (C)
8mm
BLACK
SCREW (D)
12mm
BLACK

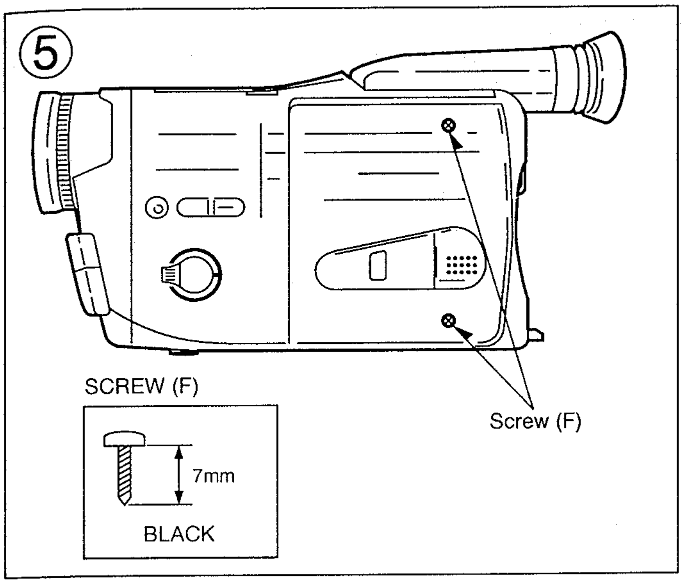
③


SCREW (E)
Screw (E)
5mm
BLACK

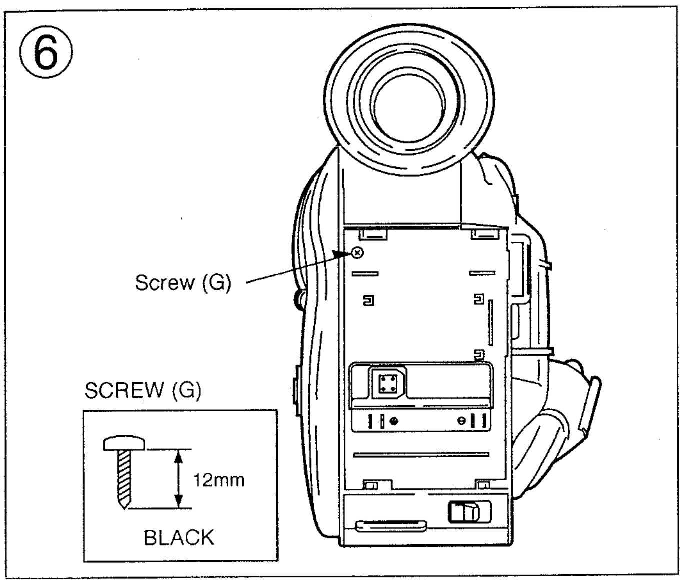
④


Connector A
(FP303)

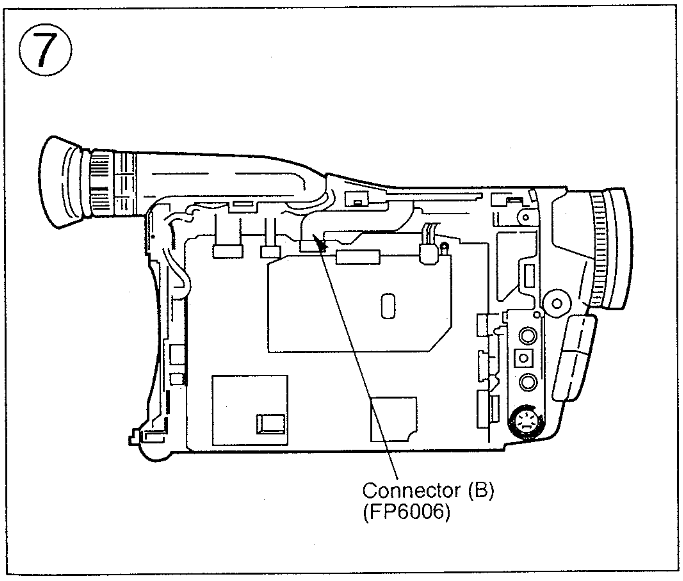
⑤


Screw (F)
SCREW (F)
7mm
BLACK

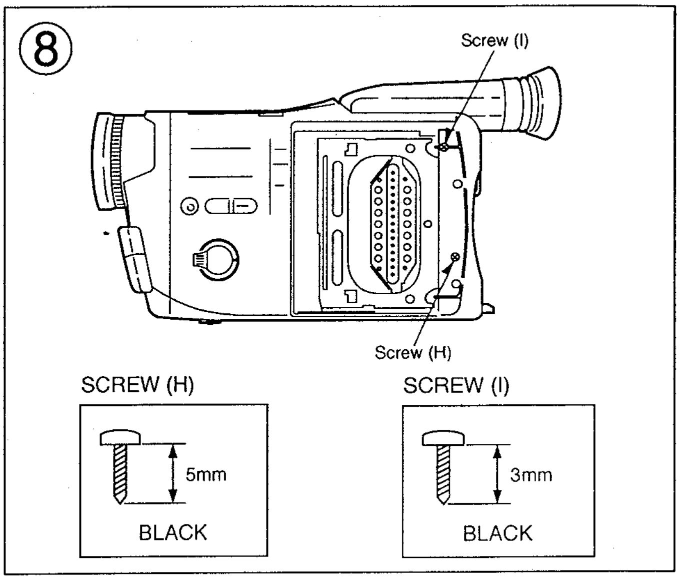
⑥


Screw (G)
SCREW (G)
12mm
BLACK

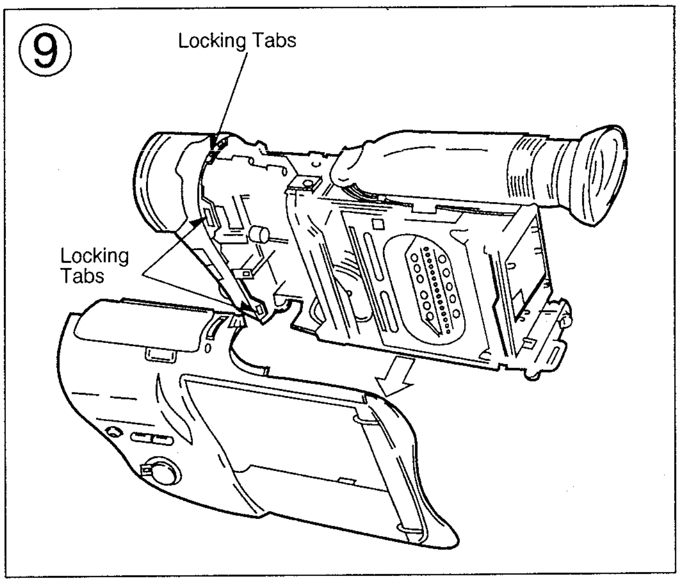
⑦


Connector (B)
(FP6006)

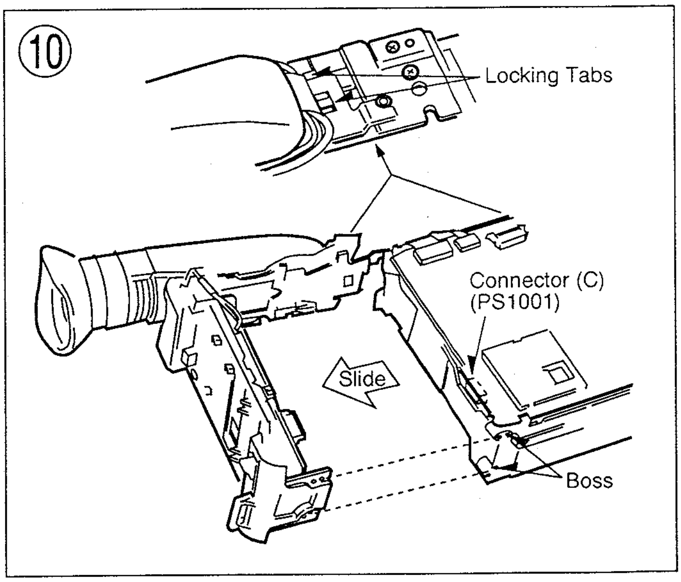
⑧

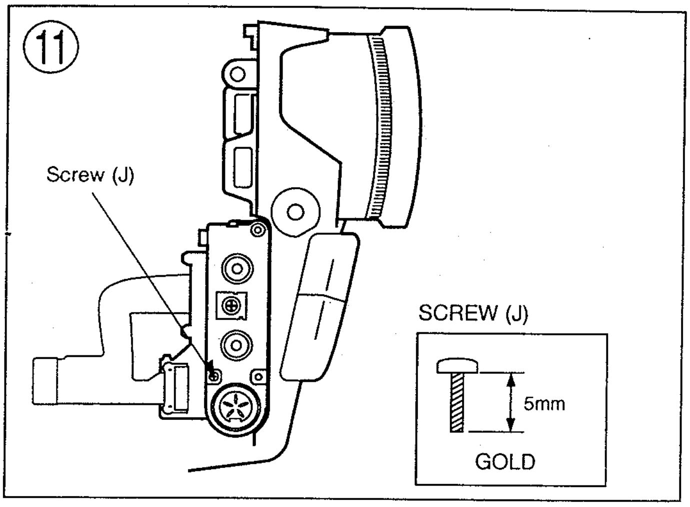

Screw (I)
Screw (H)
SCREW (H)
5mm
BLACK
SCREW (I)
3mm
BLACK

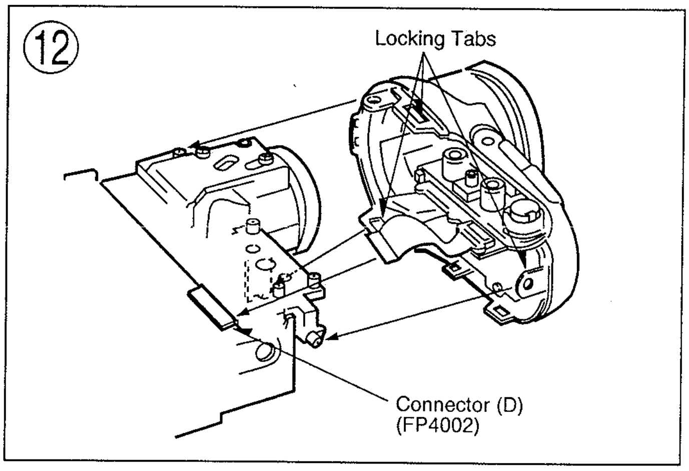
⑨

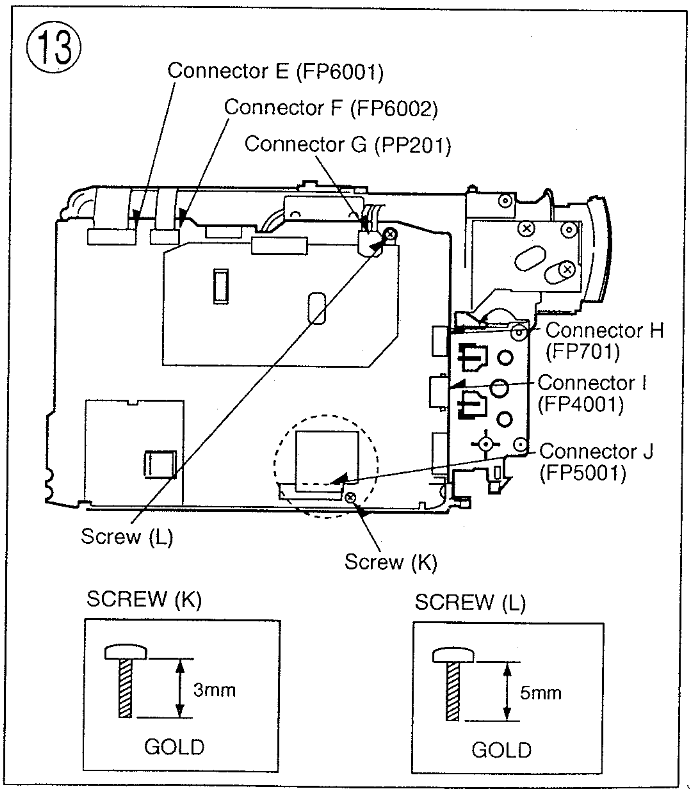

Locking Tabs
Locking
Tabs

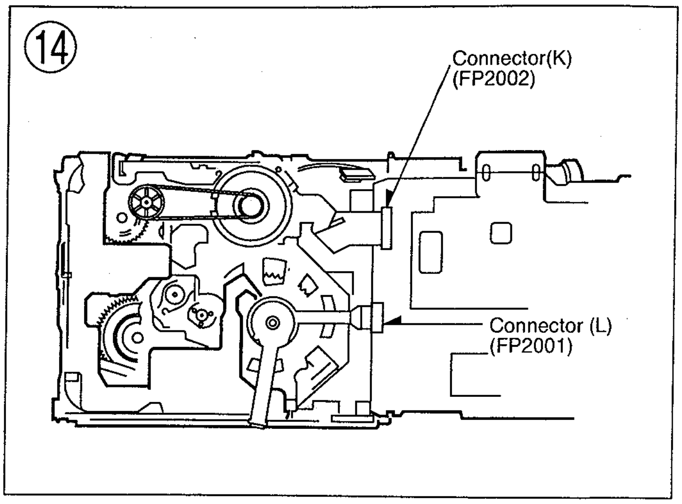
⑩

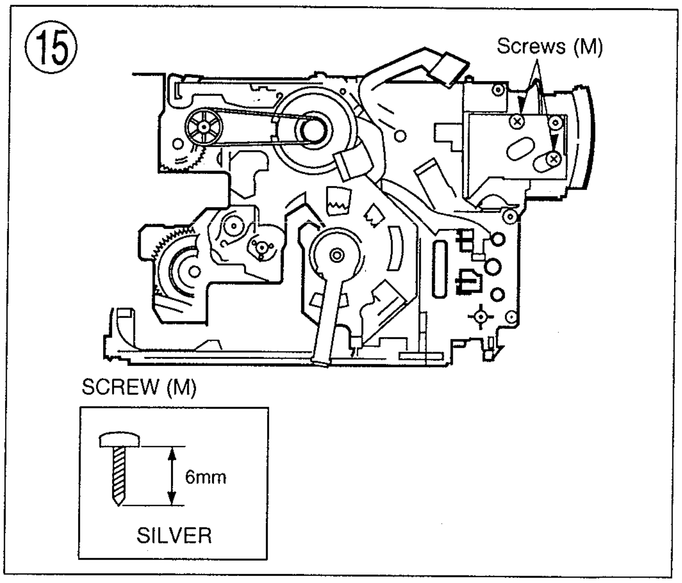

Locking Tabs
Connector (C)
(PS1001)
Slide
Boss


⑪
Screw (J)
SCREW (J)
5mm
GOLD

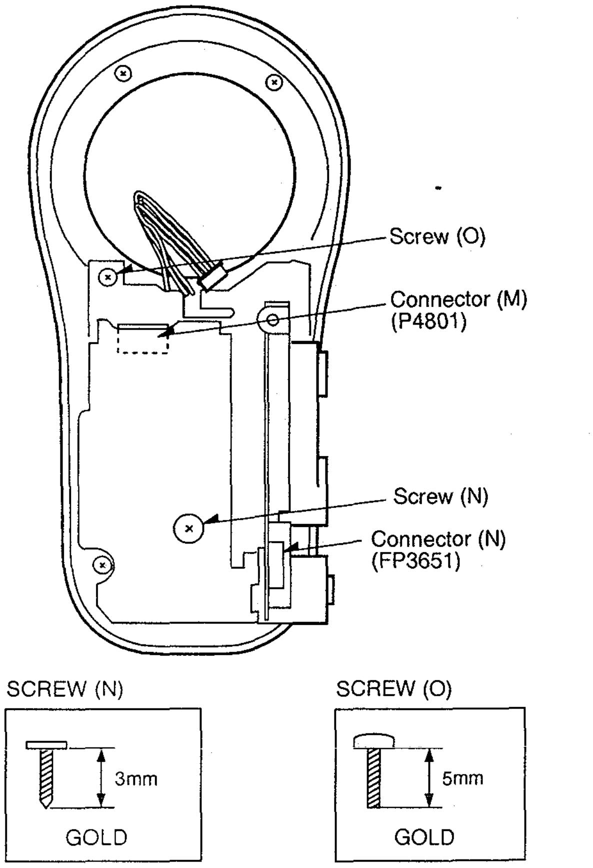

⑫
Locking Tabs
Connector (D)
(FP4002)


⑬
Connector E (FP6001)
Connector F (FP6002)
Connector G (PP201)
Connector H
(FP701)
Connector I
(FP4001)
Connector J
(FP5001)
Screw (L)
Screw (K)
SCREW (K)
3mm
GOLD
SCREW (L)
5mm
GOLD

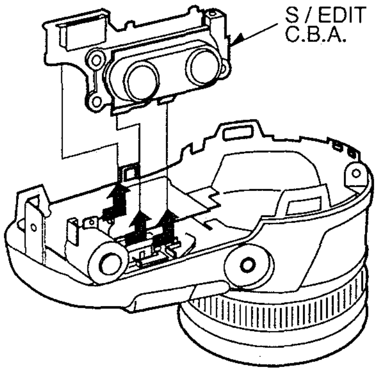

⑭
Connector(K)
(FP2002)
Connector (L)
(FP2001)


⑮
Screws (M)
SCREW (M)
6mm
SILVER

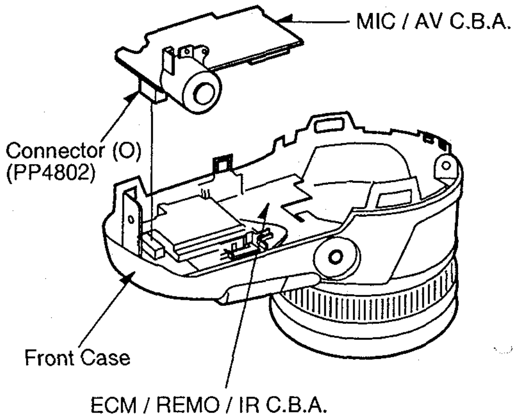
⑯


Screw (O)
Connector (M)
(P4801)
Screw (N)
Connector (N)
(FP3651)
SCREW (N)
3mm
GOLD
SCREW (O)
5mm
GOLD

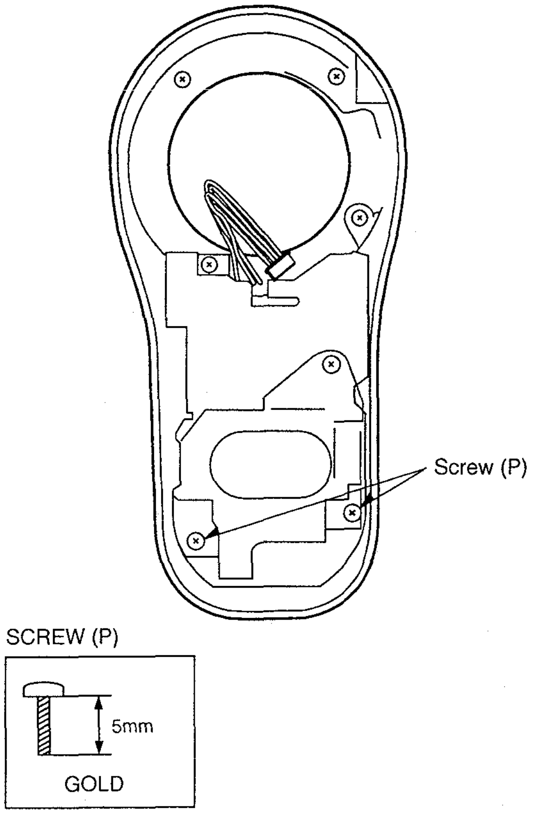
⑰


S / EDIT
C.B.A.

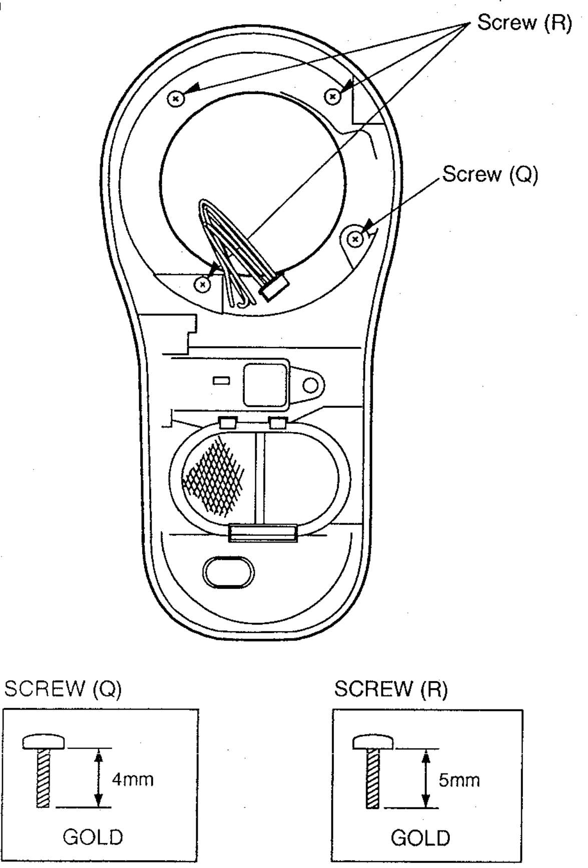
⑱


MIC / AV C.B.A.
Connector (O)
(PP4802)
Front Case
ECM / REMO / IR C.B.A.

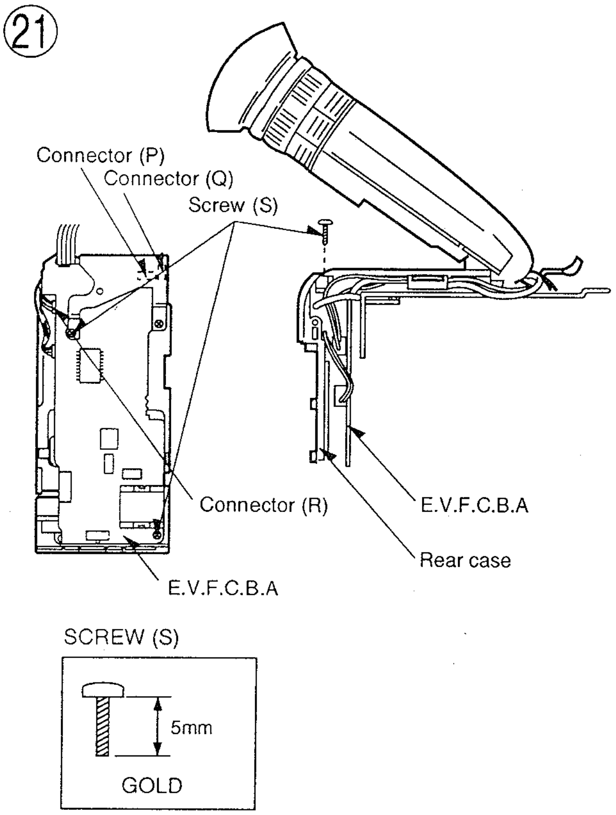
⑲


Screw (P)
SCREW (P)
5mm
GOLD

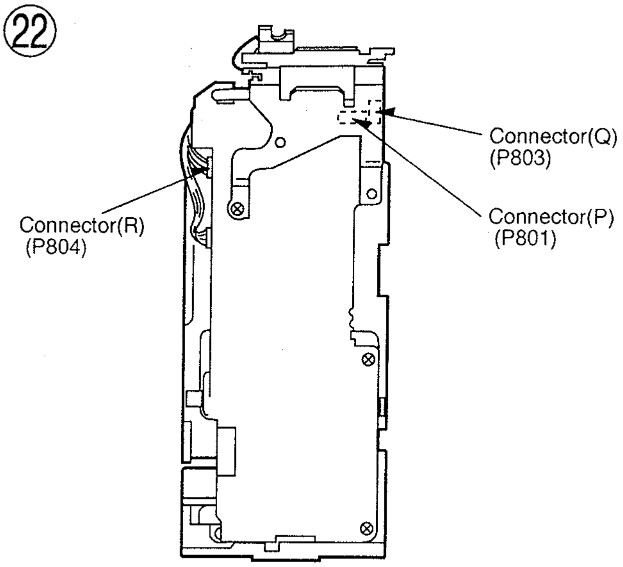
⑳


Screw (R)
Screw (Q)
SCREW (Q)
4mm
GOLD
SCREW (R)
5mm
GOLD

㉑


Connector (P)
Connector (Q)
Screw (S)
Connector (R)
E.V.F.C.B.A
E.V.F.C.B.A
Rear case
SCREW (S)
5mm
GOLD

㉒

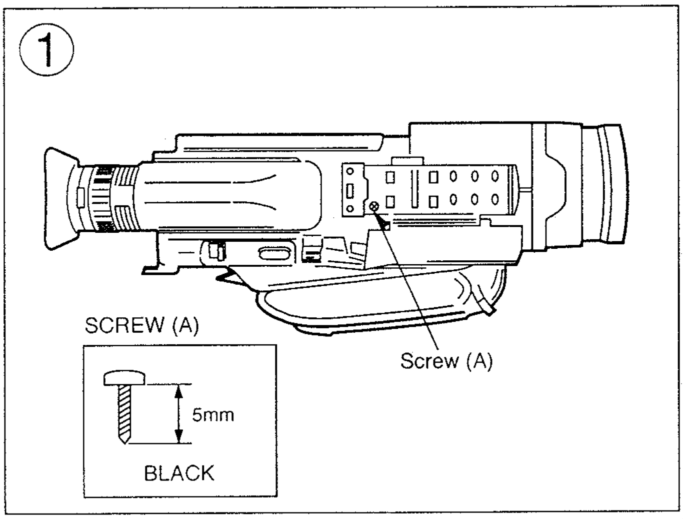

Connector(Q)
(P803)
Connector(R)
(P804)
Connector(P)
(P801)

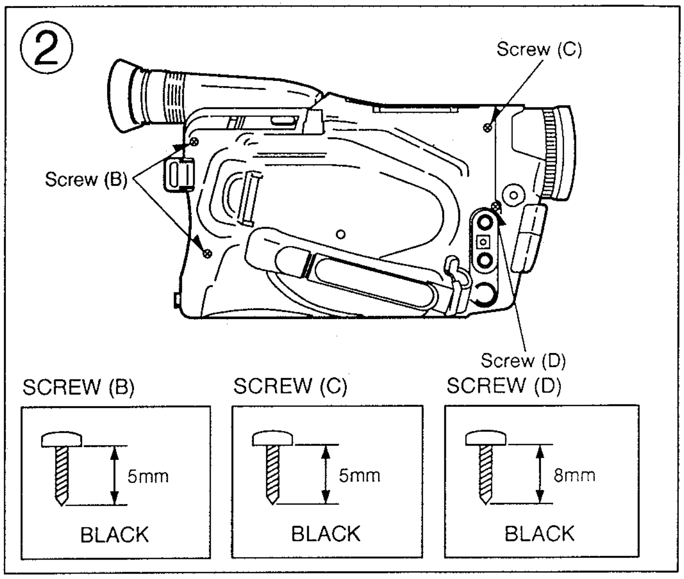
SECTION 2
ADJUSTMENT PROCEDURES (NV-SX50)

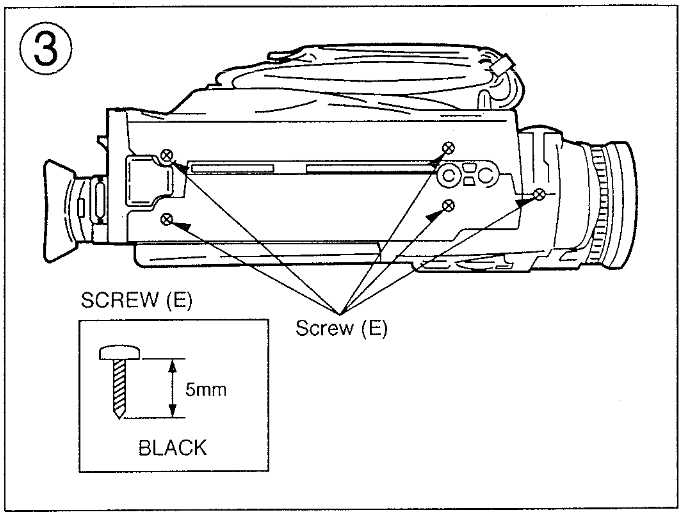
2-1. DISASSEMBLY PROCEDURES

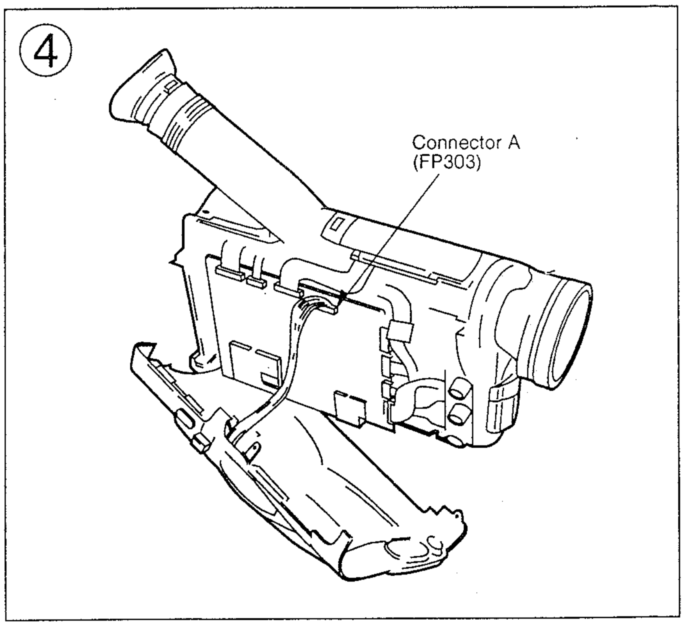
Flow-Chart for Disassembly procedure.

	ITEM/PARTS	Fig.	
[1]	Side Case (L)	① ② ③ ④	1-SCREW (A) 4-SCREW (B/C/D) 5-SCREW (E) Slightly open the side case (L) Disconnect (Connector A)
[2]	Cassette Cover	⑤	2-SCREW (F)
[3]	Side Case (R)	⑥ ⑦ ⑧ ⑨	1-SCREW (G) Disconnect (Connector B) 2-SCREW (H/I) Unlock---3 Locking Tabes Remove the side case (R)
[4]	EVF Unit	⑩	Unlock---2 Locking Tabes Disconnect (Connector C)
[5]	Front Case	⑪ ⑫	1-SCREW (J) Unlock---3 Locking Tabes Disconnect (Connector E)
[6]	Main C.B.A.	⑬ ⑭	2-SCREW (K/L) Disconnect (Connector F/G/H/I/J/K) Disconnect (Connector L/M)
[7]	Lens Unit	⑮	2-SCREW (M)
[8]	S/EDIT C.B.A. & MIC/AV C.B.A.	⑯ ⑰ ⑱	2-SCREW (N) Disconnect (Connector N/O) Remove the S/EDIT C.B.A. Remove the MIC/AV C.B.A. Disconnect (Connector P)
[9]	ECM/REMO/IR C.B.A.	⑲	2-SCREW (P) Remove the ECM/REMO/IR C.B.A.
[10]	MF LING Unit	⑳	4-SCREW (Q/R)
[11]	E.V.F. C.B.A.	㉑ ㉓ ㉔ ㉕	2-SCREW (S/V) Disconnect (Connector T) 1. Push the locking portion then Plull the Eye Cap Holder. 2. Push the locking portion then Pull the Case Holder. 2-SCREW (T) Disconnect (Connector Q/R/S) 1-SCREW (U) 2-SCREW (W)

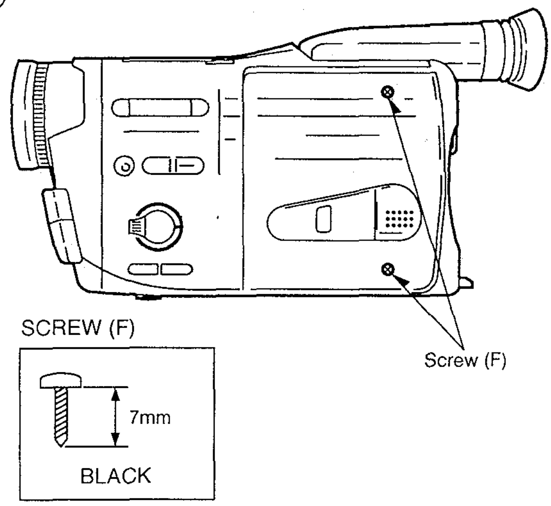

①
SCREW (A)
5mm
BLACK
Screw (A)


②
Screw (C)
Screw (B)
Screw (D)
SCREW (B)
SCREW (C)
SCREW (D)
5mm
5mm
8mm
BLACK
BLACK
BLACK

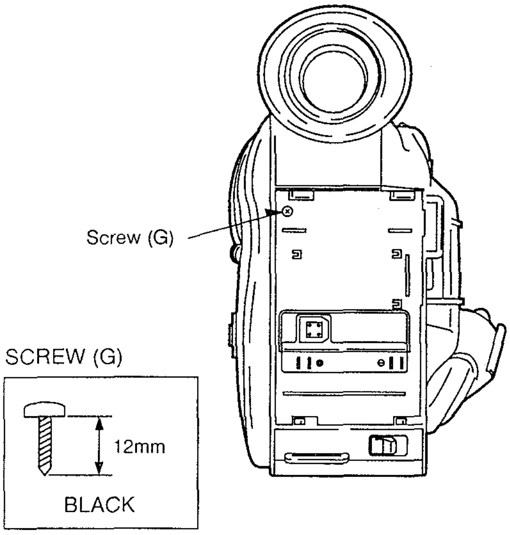

③
SCREW (E)
Screw (E)
5mm
BLACK


④
Connector A
(FP303)

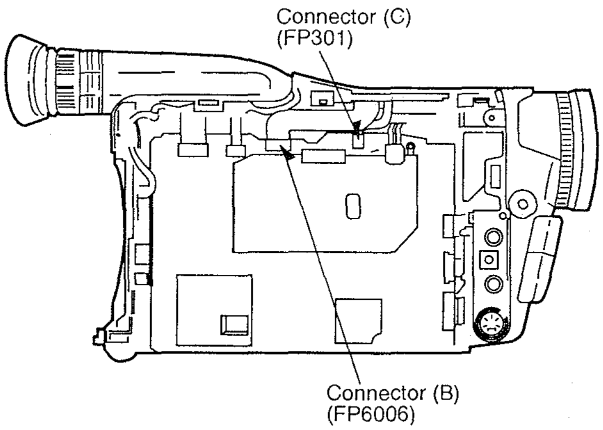
⑤


Screw (F)
SCREW (F)
7mm
BLACK

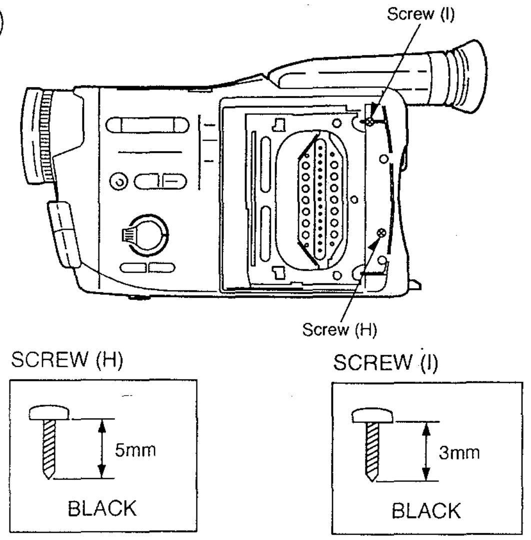
⑥


Screw (G)
SCREW (G)
12mm
BLACK

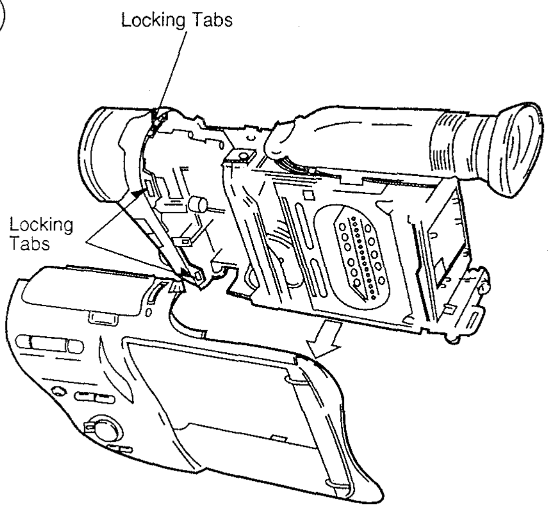
⑦


Connector (C)
(FP301)
Connector (B)
(FP6006)

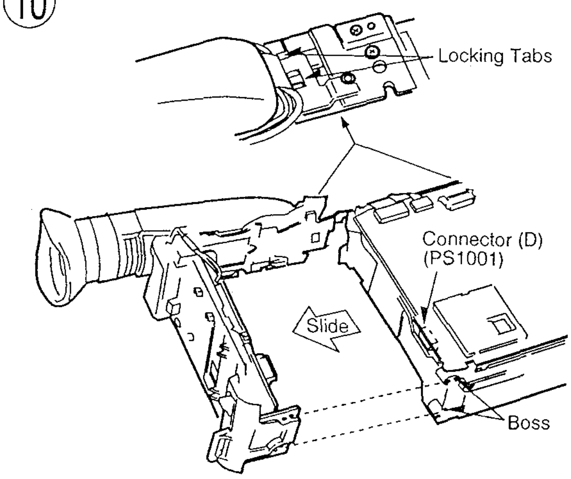
⑧


Screw (I)
Screw (H)
SCREW (H)
5mm
BLACK
SCREW (I)
3mm
BLACK

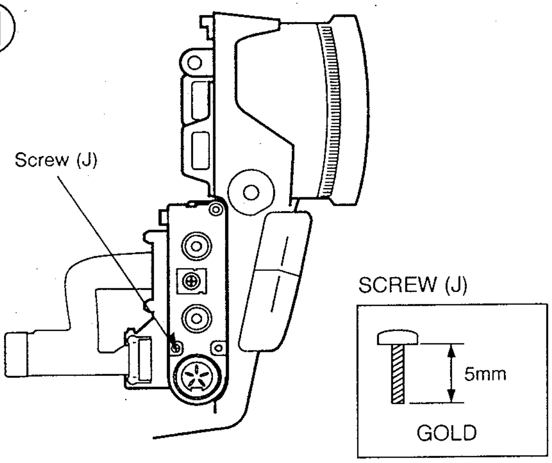
⑨


Locking Tabs
Locking
Tabs

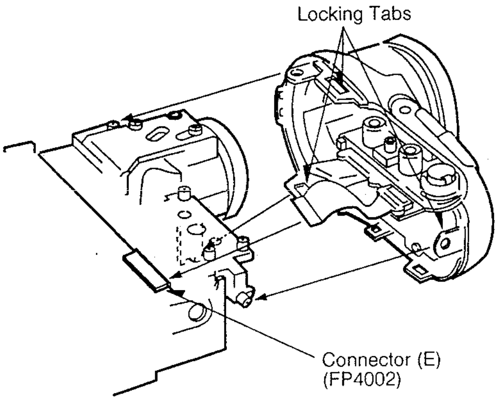
⑩


Locking Tabs
Connector (D)
(PS1001)
Slide
Boss

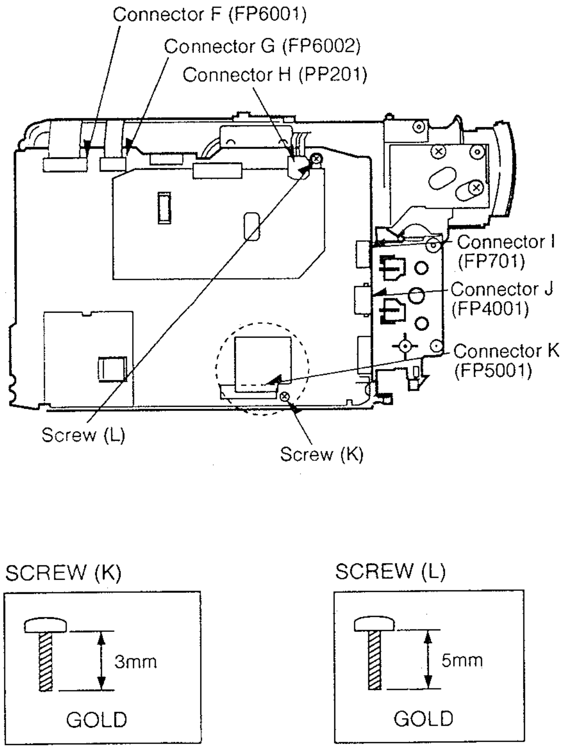
⑪


Screw (J)
SCREW (J)
5mm
GOLD

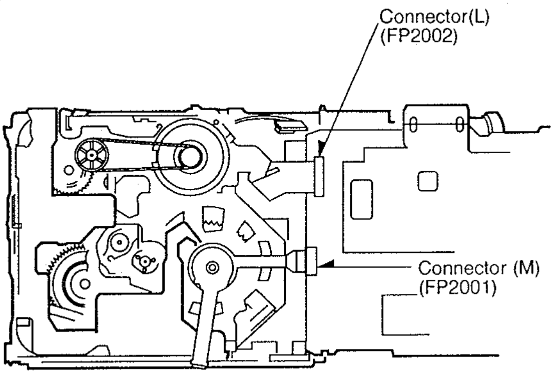
⑫


Locking Tabs
Connector (E)
(FP4002)

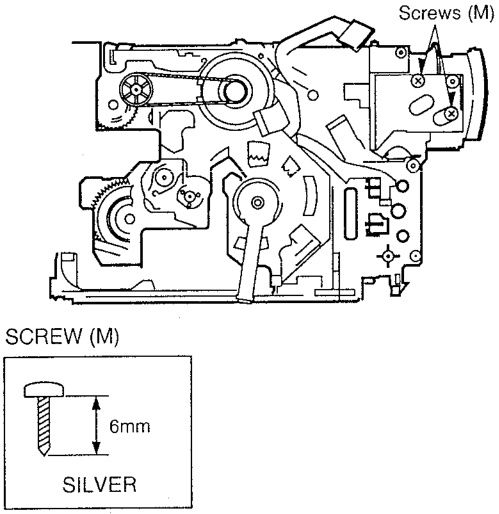
⑬


Connector F (FP6001)
Connector G (FP6002)
Connector H (PP201)
Connector I
(FP701)
Connector J
(FP4001)
Connector K
(FP5001)
Screw (L)
Screw (K)
SCREW (K)
3mm
GOLD
SCREW (L)
5mm
GOLD

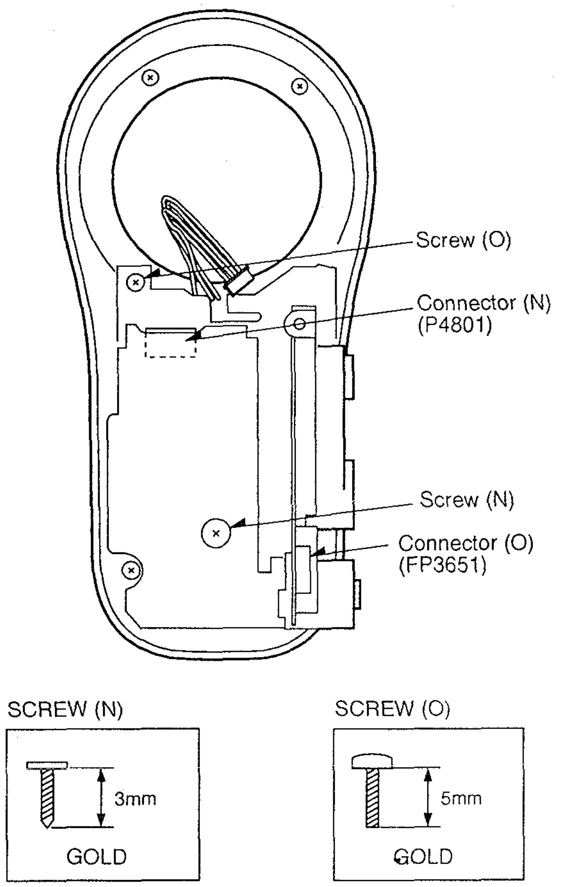
⑭


Connector(L)
(FP2002)
Connector (M)
(FP2001)

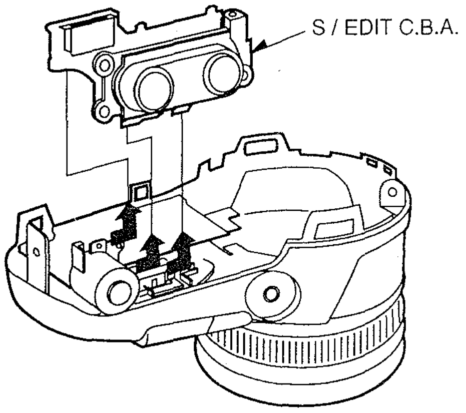
⑮


Screws (M)
SCREW (M)
6mm
SILVER

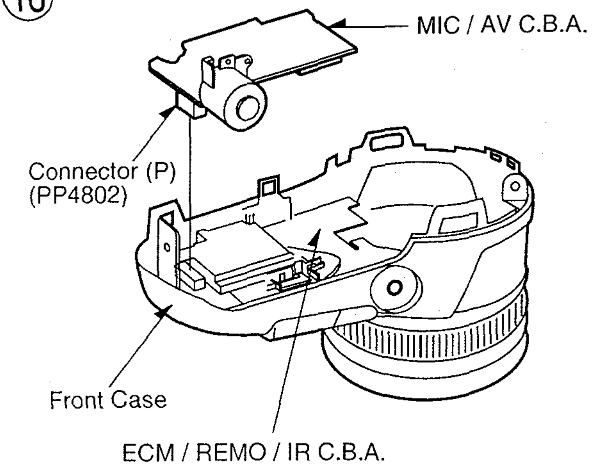
⑯


Screw (O)
Connector (N)
(P4801)
Screw (N)
Connector (O)
(FP3651)
SCREW (N)
3mm
GOLD
SCREW (O)
5mm
GOLD

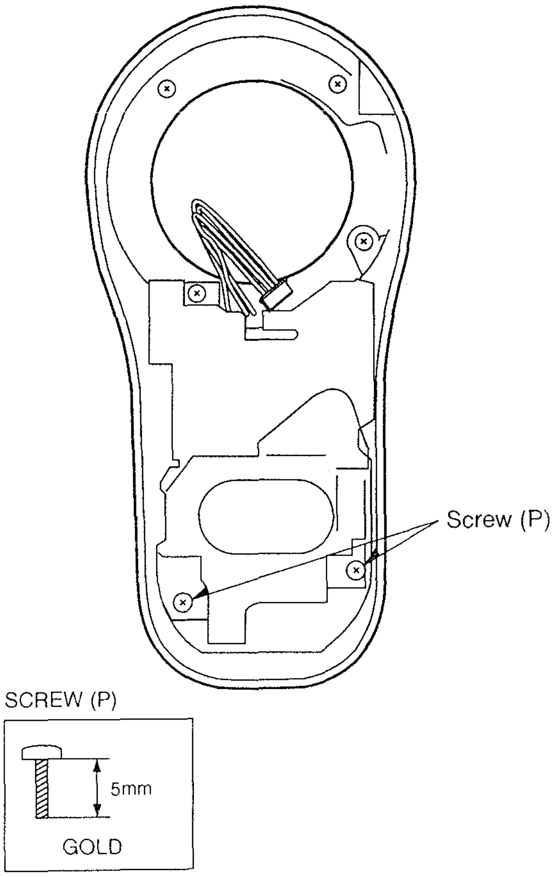
⑰


S / EDIT C.B.A.

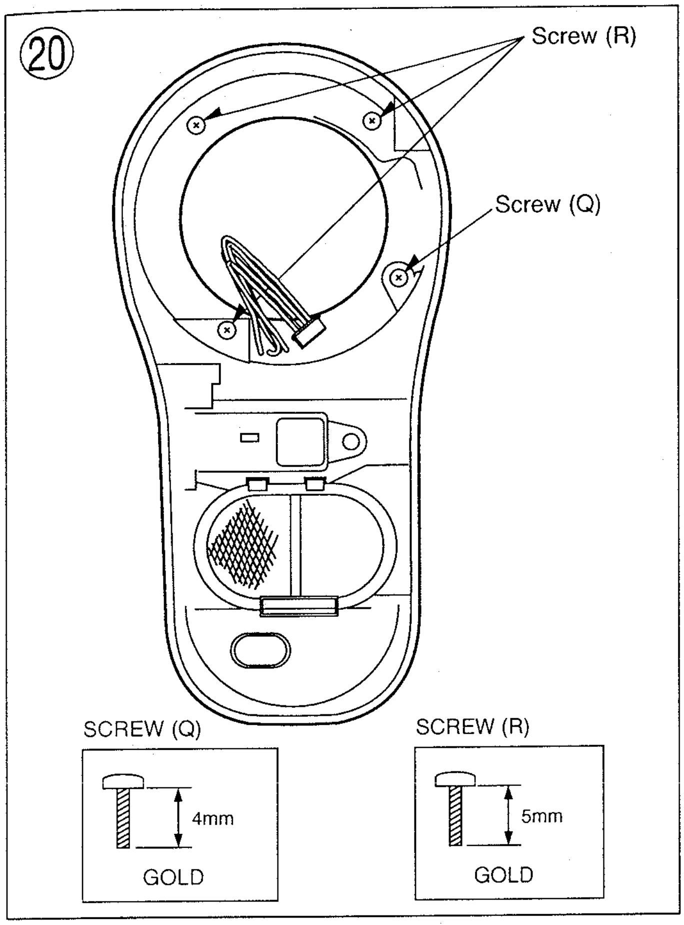
⑱


MIC / AV C.B.A.
Connector (P)
(PP4802)
Front Case
ECM / REMO / IR C.B.A.

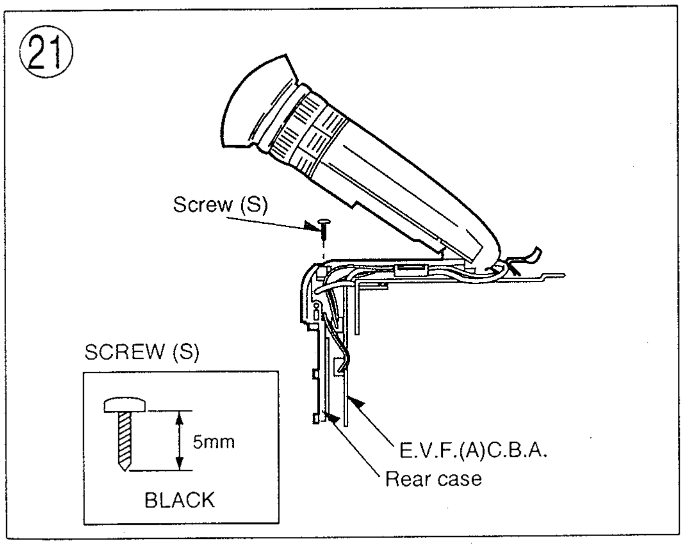
⑲


Screw (P)
SCREW (P)
5mm
GOLD

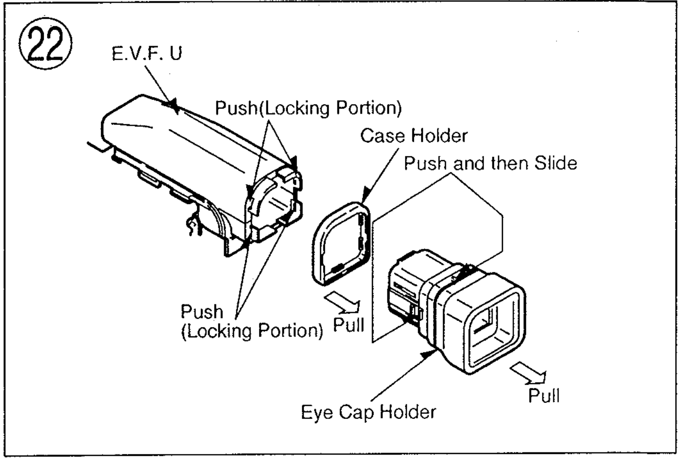
⑳


Screw (R)
Screw (Q)
SCREW (Q)
4mm
GOLD
SCREW (R)
5mm
GOLD

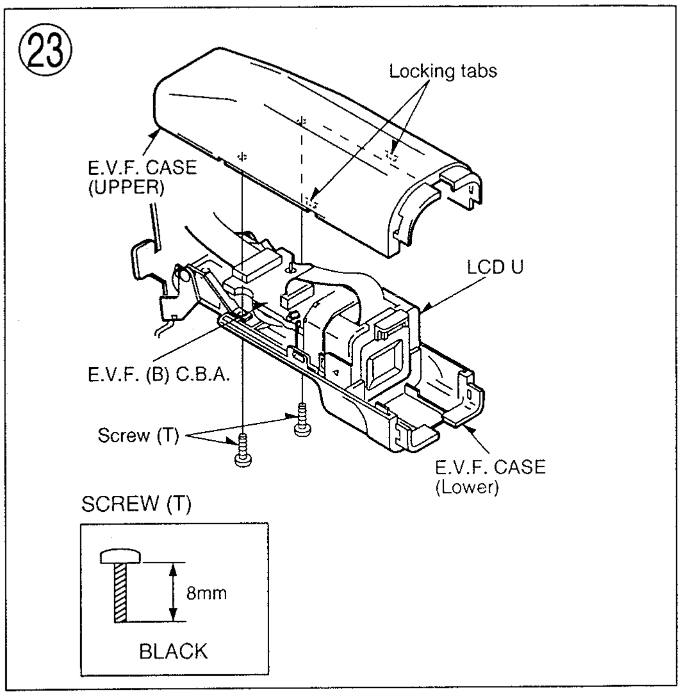
㉑


Screw (S)
SCREW (S)
5mm
BLACK
E.V.F.(A)C.B.A.
Rear case

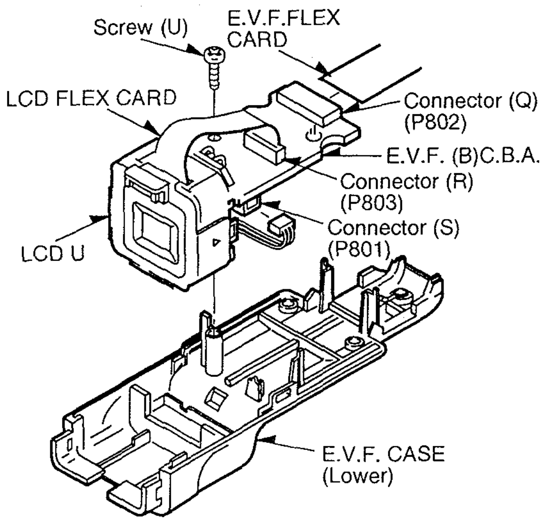
㉒


E.V.F. U
Push(Locking Portion)
Case Holder
Push and then Slide
Push
(Locking Portion)
Pull
Pull
Eye Cap Holder

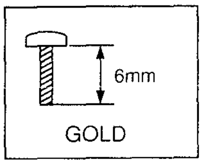
㉓


Locking tabs
E.V.F. CASE
(UPPER)
LCD U
E.V.F. (B) C.B.A.
Screw (T)
E.V.F. CASE
(Lower)
SCREW (T)
8mm
BLACK

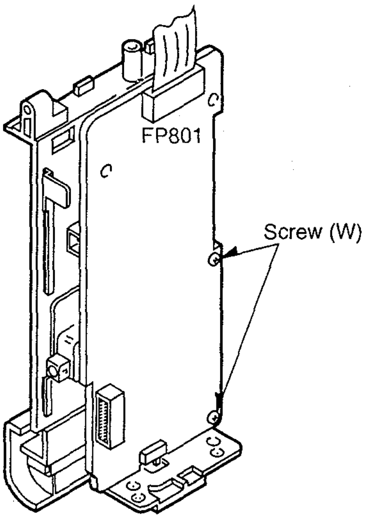
㉔


Screw (U)
E.V.F.FLEX CARD
LCD FLEX CARD
Connector (Q) (P802)
E.V.F. (B)C.B.A.
Connector (R) (P803)
Connector (S) (P801)
LCD U
E.V.F. CASE (Lower)

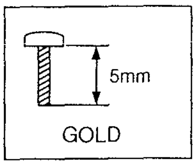
SCREW (U)



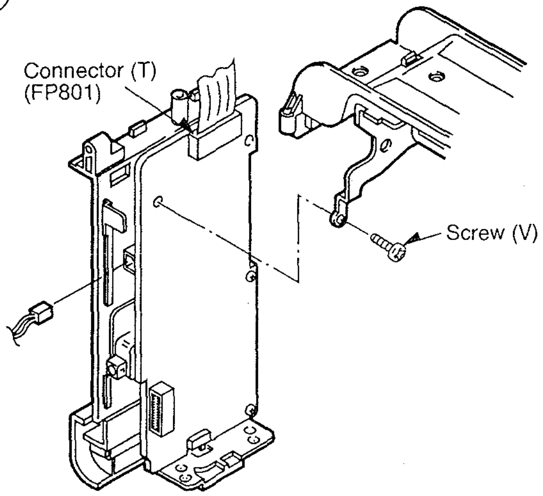
㉕


FP801
Screw (W)

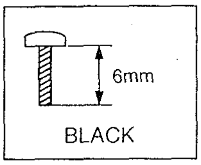
SCREW (W)



㉑


Connector (T) (FP801)
Screw (V)

SCREW (V)



2-2. DISASSEMBLY PROCEDURES OF LENS UNIT

The following flowchart describes order or steps for removing the lens units and certain printed circuit boards in order to make access to the item needing service.
To reassemble the unit follow the steps in reverse order.

1. CCD Unit	Ref.-No. 202
2. CCD Cushion & Crystal Filter	Ref.-No. 203/201
3. Focus Motor Unit	Ref.-No. 208
4. Zoom Motor Unit	Ref.-No. 207
5. Crystal Mount Plate	Ref.-No. 206
6. 4th Moving Frame Unit	Ref.-No. 214
7. Focus Guide Pole	Ref.-No. 210
8. 3rd Lens Frame Unit	Ref.-No. 216
9. Iris Unit	Ref.-No. 211
10. 2nd Moving Frame Unit	Ref.-No. 212
11. Zoom Guide Pole	Ref.-No. 209

Note: Each Ref-numbers are equivalent to
number on Fig. L2 and Parts-List.

Fig. L1

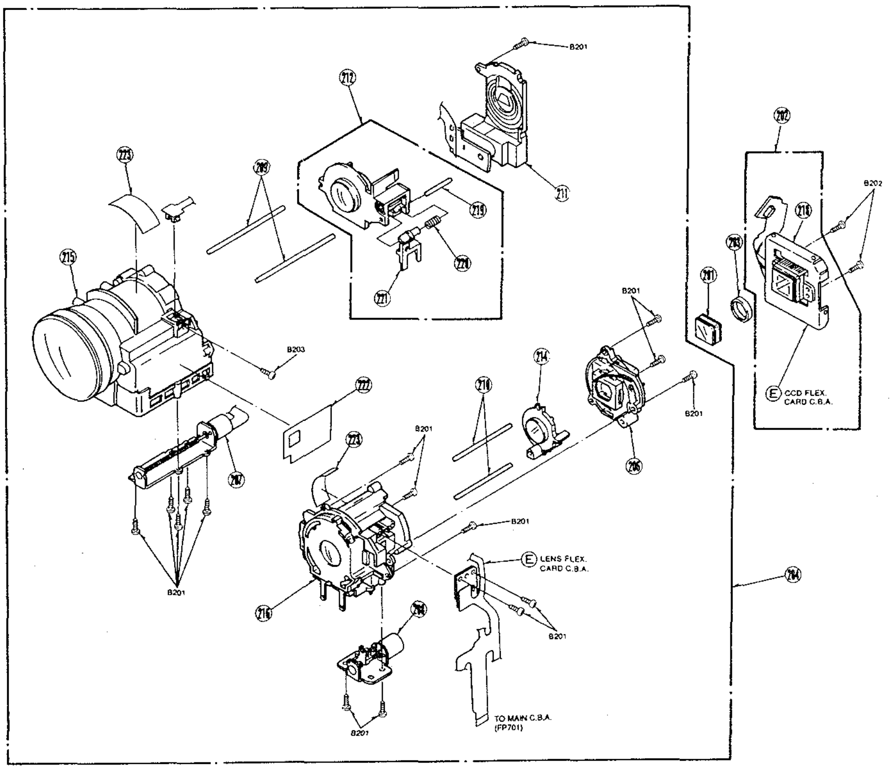

B201
212
211
223
209
219
215
220
221
202
B202
218
203
201
B201
B203
222
214
210
B201
206
223
207
B201
B201
E LENS FLEX. CARD C.B.A.
E CCD FLEX. CARD C.B.A.
204
216
208
B201
B201
TO MAIN C.B.A. (FP701)

Fig. L2

2-3. ELECTRICAL ADJUSTMENT PROCEDURES

The following equipment are required for adjustment of VIDEO & E.V.F. section of these Movie.

	Item & spec / range		Item & spec / range
1	Extension cable : VFK0668(24pin)	5	Probe for oscilloscope
2	Colour monitor		Voltage range : 0.01 ~ 50v
3	Plastic tip driver		(10:1 or 1:1 Probe)
4	Dual trace oscilloscope	6	Frequebcy counter
	Voltage range : 0.01 ~ 50v	7	Colour bar chart
	Frequency range : 0.0 ~ 50MHz		Gray scale chart

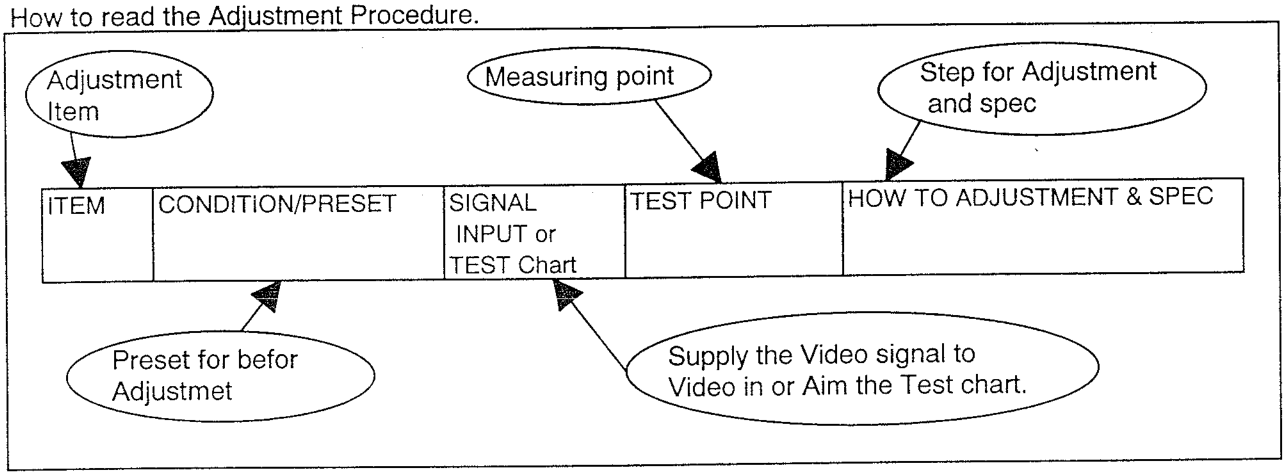
Preparation:

(A) Remove the casing panels. (Side case, Rear case)

(B) Connect the Viewfinder to unit with extension cable VFK0668(24pin) when adjusting the E.V.F. unit. (Please refer to Fig. E2)

(C) The camera unit must be completely aligned befor adjustment for VTR unit / Viewfinder unit.

How to read the Adjustment Procedure.


Adjustment Item
Measuring point
Step for Adjustment and spec
ITEM
CONDITION/PRESET
SIGNAL INPUT or TEST Chart
TEST POINT
HOW TO ADJUSTMENT & SPEC
Preset for befor Adjustmet
Supply the Video signal to Video in or Aim the Test chart.

NOTE1 : TRIGGERING THE OSCILLOSCOPE.
To trigger the oscilloscope, following test points are used.
H. Rate : Video out
V. Rate : PP6001-10(Head switching signal)
(Please refer to Fig. E1)

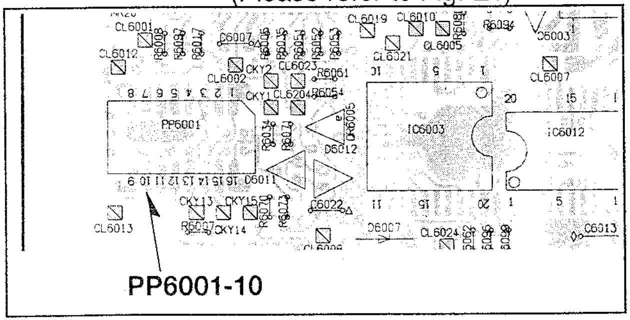
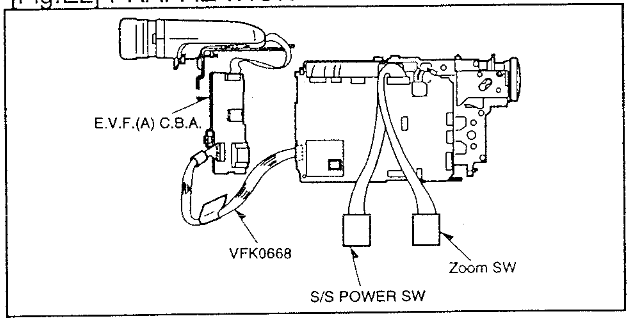

PP6001
IC6003
IC6012
D6012
CL6001
CL6012
CL6002
CL6013
CL6019
CL6010
CL6005
CL6021
CL6007
CL6024
C6013
D6007
PP6001-10

Fig.E1

[Fig.E2] PRAPALATION


E.V.F.(A) C.B.A.
VFK0668
Zoom SW
S/S POWER SW

NOTE2 : Following adjustments are required the TATSUJIN KIT.
So, adjustment procedure described on TATSUJIN software.

1. CAMERA SECTION
2. VIDEO SECTION (EXCEPT VCO ADJUSTMNT).
3. PG SHIFTER
4. FM AUDIO RCORDING CURRENT
5. VITC SECTION

2-3-1. ELECTRICAL ADJUSTMENT FOR VIDEO SECTION.

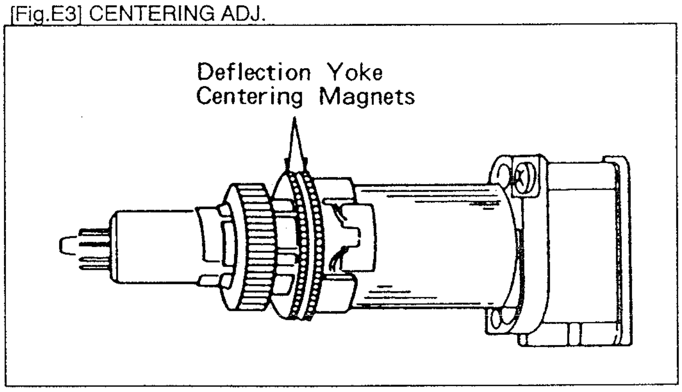
ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1.VCO	1.Connect the frequency counter to PP3001-3pin. 2.Supply the 2.5V DC voltage to TL5533 and TL5534. 3.Connect the 2.2KΩ resistor between TL5532 and GND. 4.Playback the recorded signal.	————	PP3001-3pin	Turn the FL5501 so that the frequency at PP3001-3pin become 5.110MHz±25KHz.

2-3-2. ELECTRICAL ADJUSTMENT FOR B/W E.V.F. SECTION. (NV-SX30 SERIES ONLY)

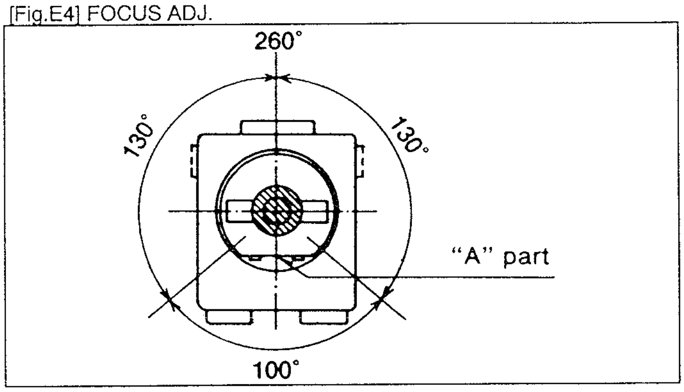
Note : The camera unit must be completely aligned before viewfinder adjustment.

ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1.PICTURE CENTERING	1.Aim the camera registration chart.	Registration chart	E.V.F. on screen	1.Adjust the deflection-yoke centering magnets turning so that picture on E.V.F. is centered. (Please refer to Fig.E3)
2.FOCUS	1.Aim the camera at ball chart.	Ball chart	E.V.F. on screen	1.Adjust the VR803 for best resolution in viewfinder. Note : After performed this adjustment, confirm "A" part of VR803. "A" part is outside of 100 degree. (Please refer to Fig.E4)
3.VERTICAL SIZE	1.Aim the camera at Gray-scale chart.	Gray-scale chart	E.V.F. & TV on screen	1.Adjust the VR801 for best vertical size. (Picture does not roll as shown in Fig.E5)
4.BRIGHTNESS	1.Aim the camera at Gray-scale chart.	Gray-scale chart	E.V.F. & TV on screen	1.Adjust the VR804 so that brightness in viewfinder is same as monitor TV.

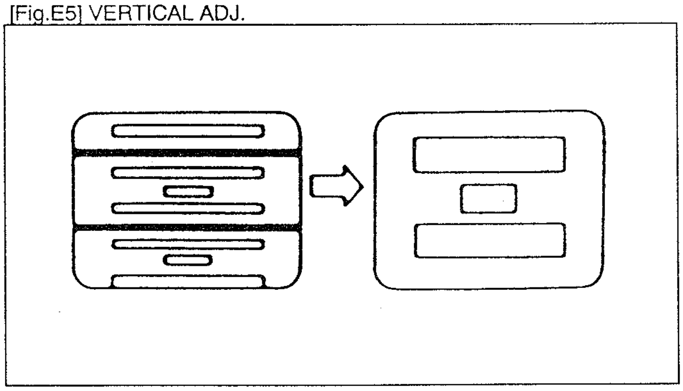
[Fig.E3] CENTERING ADJ.



[Fig.E4] FOCUS ADJ.

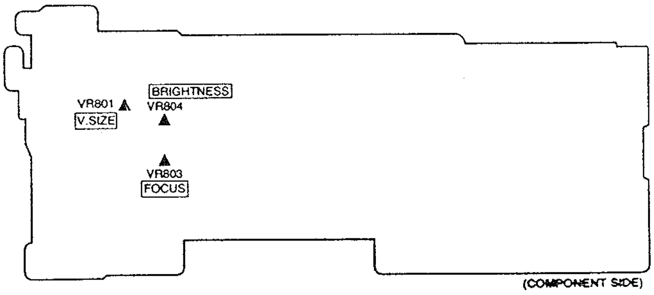


[Fig.E5] VERTICAL ADJ.



LOCATION OF CONTROLS

EVF C.B.A.

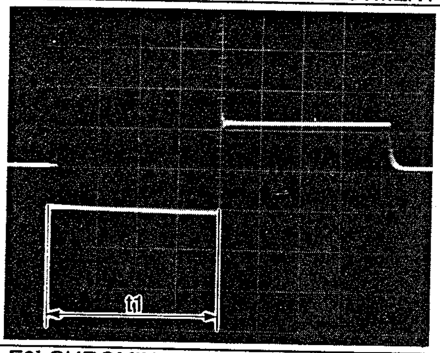


2-3-3. ELECTRICAL ADJUSTMENT FOR COLOUR E.V.F. SECTION. (NV-SX50 SERIES ONLY)

Note : The camera unit must be completely aligned before viewfinder adjustment.

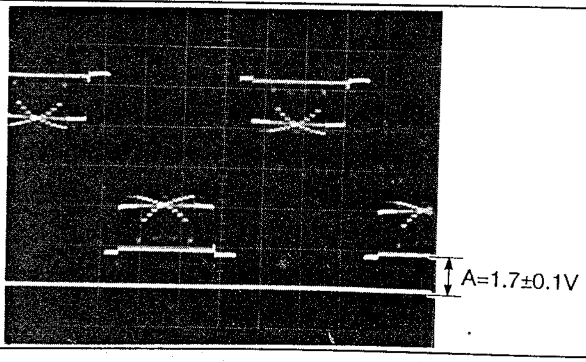
ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1.POWER VOLTAGE	1.Connect the Digital volt meter to TL806.	————	TL806	1.Turn VR809 so that the voltage at TL806 becomes **12.0 ± 0.03V**
2.PICTURE CENTRING	1.Aim the camera at the colour bar chart.	Colour bar Chart	TL807	1.Turn VR801 until **t1 = 1.6 ± 0.1usec.** (Please refer to Fig.E6)
3.PEDESTAL LEVEL	1.Aim the camera at the gray-scale chart. 2.Connect the oscilloscope to TL803.	Gray scale Chart	TL803	1.Turn VR810 so that the "A" level becomes **1.7 ± 0.1V** (Please refer to Fig.E7)
4.CHROMINANCE G LEVEL	1.Aim the camera at the gray-scale chart. 2.Connect the oscilloscope to TL803.	Gray scale Chart	TL803	1.Turn VR802 so that the "A" level becomes **2.6 ± 0.1V** (Please refer to Fig.E8)
5.COLOUR LEVEL	1.Aim the camera at the colour bar chart. 2.Connect the oscilloscope to TL801.	Colour bar Chart	TL801	1. Turn VR808 so that level of Magenta, Cyan, and Blue becomes equal on TL801. (Please refer to Fig.E9) 2. Turn VR806 so that level of White and Blue becomes Blue level = **White level - 0.1±0.1V** on TL801. (Please refer to Fig.E10)
6.SYNC LEVEL	1.Aim the camera at the colour bar chart. 2.Connect the oscilloscope to TL802.	Colour bar Chart	TL802	1. Turn VR808 so that level of Cyan, Green and Blue becomes minimize vibration on TL802. (Please refer to Fig.E11)
7.COLOUR PHASE	1.Aim the camera at the colour bar chart. 2.Connect the oscilloscope to TL801.	Colour bar Chart	TL801	1. Turn VR807 so that level of Cyan and Magenta becomes minimize vibration on TL801. 2.Confirm the level of White and Blue becomes Blue level = **White level - 0.1±0.1V** on TL801. If above level is out of spec carry out the adjustment VR806.
8.WHITE BALANCE	1.Aim the camera at the gray-scale chart.	Gray scale Chart	E.V.F	1.Turn VR807/VR806 so that the picture on E.V.F. becomes black and white.

[Fig.E6] PICTURE CENTRING ADJUSTMENT

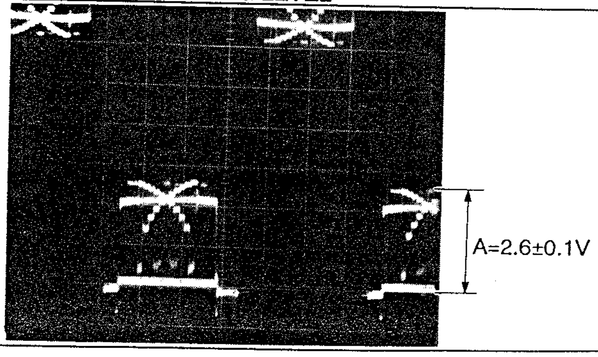


t1 = 1.6 ± 0.1usec.

[Fig.E7] PEDESTAL LEVEL

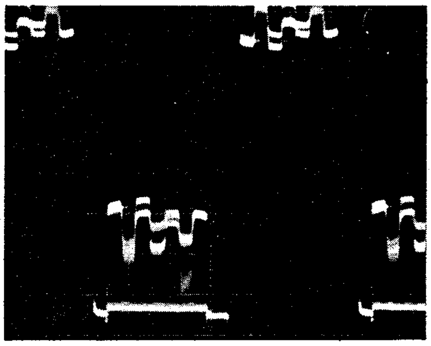


[Fig.E8] CHROMINANCE G LEVEL

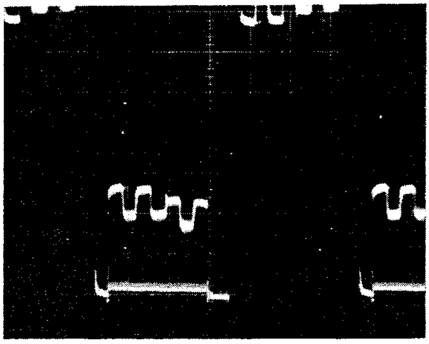


[Fig.E9] COLOUR LEVEL (1)

Befor Adjustment

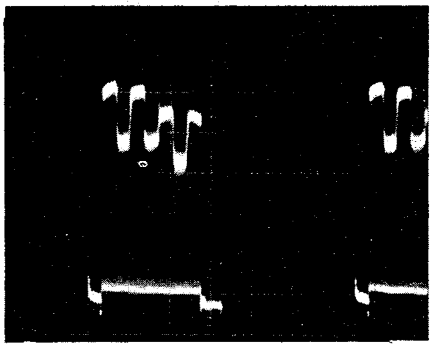


After Adjustment

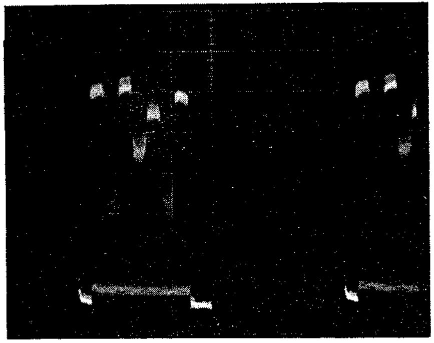


[Fig.E10] COLOUR LEVEL(2)

Befor Adjustment

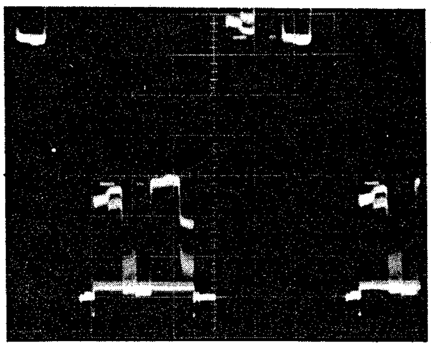


After Adjustment

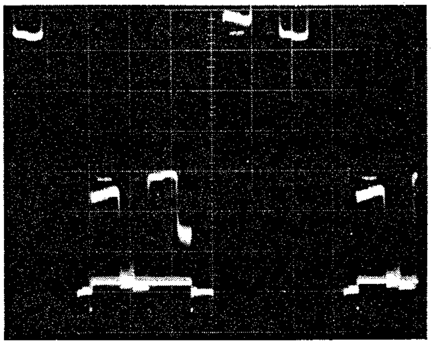


[Fig.E11] SYNC LEVEL

Befor Adjustment

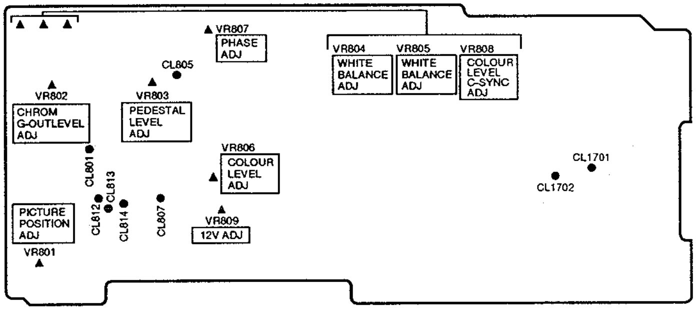


After Adjustment



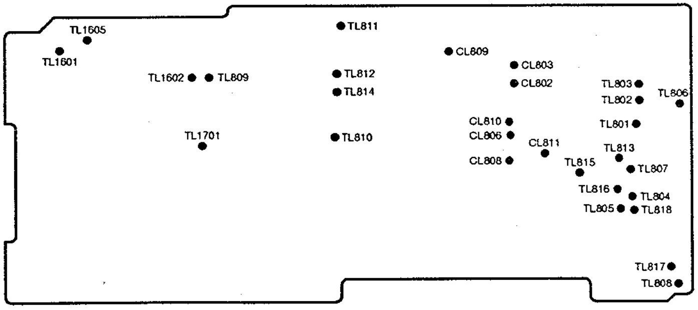
LOCATION OF TEST POINT & CONTROLS

E.V.F.-A


VR807
PHASE ADJ
VR804
WHITE BALANCE ADJ
VR805
WHITE BALANCE ADJ
VR808
COLOUR LEVEL C-SYNC ADJ
CL805
VR802
CHROM G-OUTLEVEL ADJ
VR803
PEDESTAL LEVEL ADJ
VR806
COLOUR LEVEL ADJ
CL801
CL813
CL812
CL814
CL807
VR809
12V ADJ
PICTURE POSITION ADJ
VR801
CL1701
CL1702

(COMPONENT SIDE)

E.V.F.-A


TL1605
TL1601
TL1602
TL809
TL811
TL812
TL814
TL1701
TL810
CL809
CL803
CL802
TL803
TL802
TL806
CL810
CL806
CL811
CL808
TL801
TL813
TL815
TL807
TL816
TL804
TL805
TL818
TL817
TL808

(FOIL SIDE)

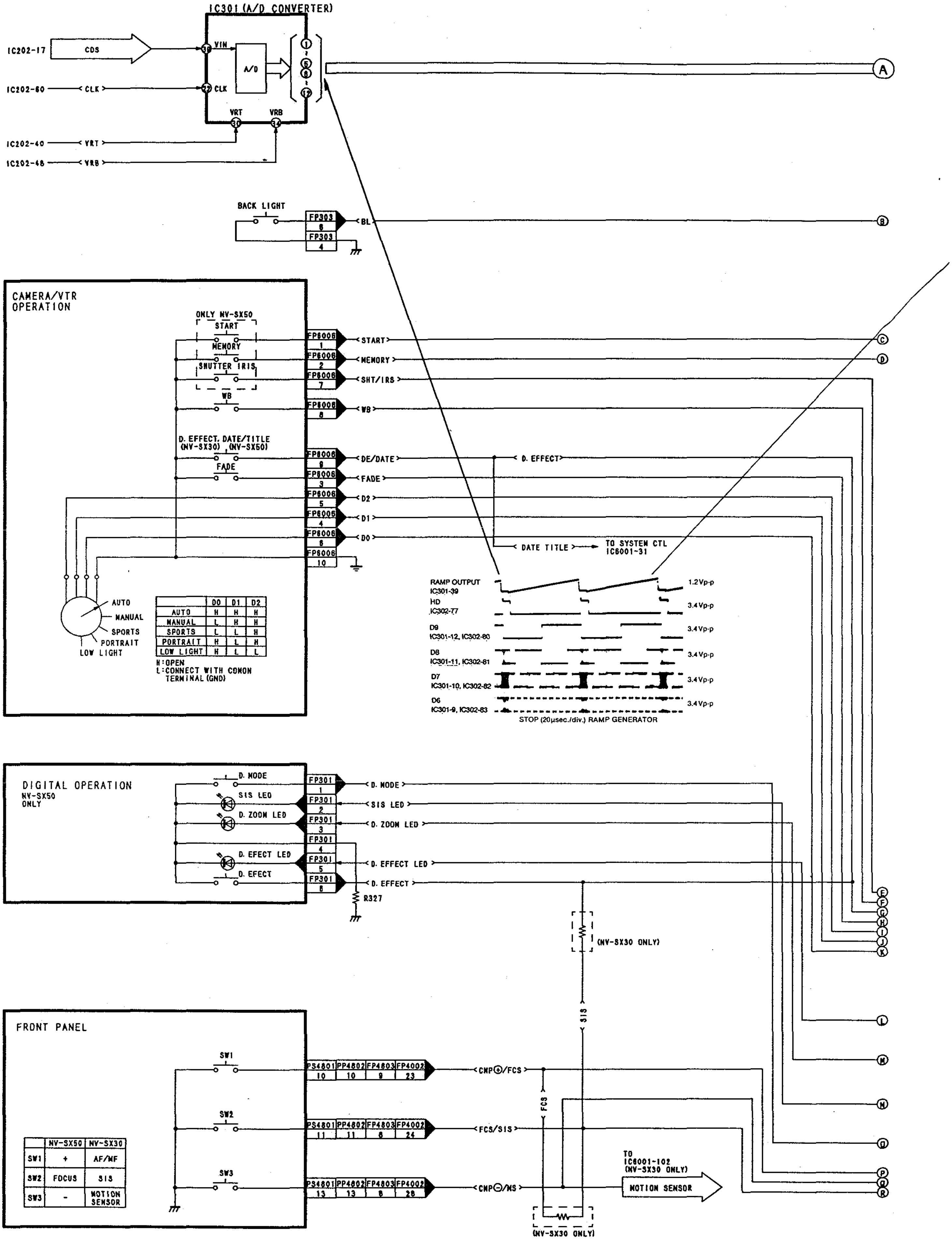
SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS
3-1. ABBREVIATIONS

INITIAL/LOGO		ABBREVIATIONS
A	A. TR	Auto Tracking
	ABSF	Focus Encoder Input
	AD REC	Audio Delaied REC
	ADCLK	Analogue Digital Clock
	ADCNT	Analogue Digital Control
	ADCS	Analogue Digital Chip Select
	AE	Auto Expose
	AECNT	Auto Expose Control
	AEIRQ	Auto Expose Interrupt Request
	AFADE	Audio Fade
	AGCCNT	Automatic Gain Control Control
	AGS	Anti Ground Shooting
	ALCCNT	Auto Level Control Control
	ALCMAIN	Auto Level Control Drive
	AMUT	Audio Mute
	AORP	Audio Overlap Pulse
	APCNT	Aperture Control
	APS	Auto Power Save
	ARTV	Artifical Vertical Sync
	ATR	Auto Tracking
	AVDD	Analogue VDD
	AVSS	Analogue Ground
	AWTB	Auto White Balance B-Y
	AWTR	Auto White Balance R-Y
B	B-Y KB	B-Y Carrier Balance
	BACK	Back-up
	BCBM(B-Y)	B-Y Carrier Balance
	BCBM(R-Y)	R-Y Carrier Balance
	BFA	Burst Flug for Encoder
	BFND	Burst Flag Pulse
	BFO/BFI	Burst Flug Input/Output
	BL	Back Light
	BLC 0, I	Back Light Y Control Out, In
	BLDI/O	Back Light Drive Input / Output
	BLK	Blanking Pulse
	BLKI/O	Blanking Pulse In/Out
	BM	Balance Modulator
	BUF	Buffer
C	C CNT	Colour Control
	C/N	Carrier/Noise
	CAMCLK	Camera Clock
	CAP R/F/S	Capstan Revers(H)/Stop(M)/Forward(L)
	CAPVM	Capstan Motor Current
	CASDWN	Cassette Down
	CBLK	Composite Blanking Pulse
	CCW	Counter-Clockwise
	CDS	Correlate Double Sampling Signal
	CFEM	Chrominance Memory Signal
	CGC	Chrominance Gain
	CH1	Channel 1 (Odd Field)
	CHR MIX	Character Mix
	CL / CLK	Clock
	CMO	Chroma Memory Output
	CMODE	Camera Mode
	CO0-7	Chrominance Output 0 to 7 (Digital)
	COM	Common
	CP	Clamp Pulse
	CPOB	Clamp Pulse for Optical Blanking
	CPS	Composite Signal
	CRST	Camera Reset
	CS	Chip Select
	CS 0-7	Chrominance Signal Out 0-7
	CSEL	Clock Phase Select
	CW	Clockwise
	CYLVM	Cylinder Motor Current or Power
D	D MODE	Digital Mode Switch Signal
	DAC	Digital Analog Convertor
	DAC	Digital Analogue Converter
	DB0-7	Data 0-7
	DCLR	Digital Clear
	DCP	Digital Clamp Pulse
	DICLK	Digital Clock
	DIS	Digital Image Stabilizer
	DISCS	Dis Chip Select
	DISP	Display
	DL	Delay Line
	DL	Delay Line
	DOCTL	Data Output Control
	DODAT	Serial Data (to D/A Converter)
	DRK	Dark
	DS	Double Sampling Pulse
	DS1, 2	Double Sampling Pulse
	DSP	Digital Signal Processor
	DSP	Digital Signal Processor
	DVDD	Digital VDD
	DVSS	Digital Ground
	DZ	Digital Zoom
E	E Snap	Electric Snap Shot
	E2P	EEPROM
	ECM	Electric Condencer Mic
	EE CS	EEPROM Chip Select
	EEPROM	Electric Erasable Programable Read Only Memory
	ENV	Enverope
	EQ	Equalizer
	EXT DC	External DC (AC Adaptor)
	EZOOM	Electric Zoom
F	F	Far (Focus)
	FCK	Clock
	FENC	Focus Encoder
	FM0-7	Field Memory 0 - 7
	FMCS	Chip Serect for FM-Audio
	FMDREC	FM Audio Delayed REC
	FMOEM	Field Memory Enable
	FMT1-4	Focus Motor Terminal 1-4
	FNO	F Value
G	GCNT	Gain Control
	GSW	Ground for Switching Power
H	H1, 2	H. CCD Drive Pulse
	HASW	HEAD AMP SW
	HBRST	High Bright Set
	HCLR	High Clear
	HCP	Shift Clock for Horizontal Drive
	HEX	Hexadecimal
	HLT	High Bright Signal
	HSS	Horizontal Sync Signal
	HSS	High Speed Shutter
I	INTER	Interval Recording
	INV	Inverter
	IOU	R-Y Analogue Signal Output
	IOV	B-Y Analogue Signal Output
	IRDET	Infrared Rays Detection
	IRIS/SH	Iris / Shutter Control
	IRQ	Interrupt Request
K	KANDO	Digital Gain Up
	KND	Digital Gain Up
	KNEE	Knee Corection (γ Control)

INITIAL/LOGO		ABBREVIATIONS
L	LCD	Liquid Crystal Display
	LD	Load Pulse
	LEDCNT	LED Control
	LI-BATT	Lithium Battery
	LSB	Least Significant Bit
	LVL	LPF Switch for Auto Focus
M	MD	Modulation
	MENB	Focus Motor Enable
	MFF	Manual Focus Far
	MFN	Manual Focus Near
	MIX N.R.D.	Non Rec Data Mix
	MRST	Focus Motor Reset
	MSB	Most Signal Bit
	MVSYNC	Monitor Vertical Sync Signal
N	N	Near (Focus)
	N/F	Near/Far Focus
	N/P	NTSC/PAL
	NC	No Connection
	NDE	Non Liner De-Emphasis
	NLE	Non Liner Emphasis
	NR	Noise Reduction
	NRD	Non Rec Data
	NRD BLK	No Rec Data Blanking
	NRD CLK	No Rec Data Clock
	NRDBLK	Non Rec Data Blanking
	NRE	Read Enable Input (Low Active)
	NWE	Write Enable (Low Active)
O	OBCNT	Optical Black Control
	OE	Output Enable
	OP	Operation AMP Output
	OSD	ON Screen Display
	OVL	Overlap Pulse
	OZ	Optical Zoom
P	PAJ	Picture Control
	PB1-3	PNP Base 1-3
	PBCTL	Play Back Control
	PBCTL	Pre-Branking Control
	PBLK	Pre-Blanking (Pulse)
	PCBM	Carrier Balance
	PED	Pedestal
	PEDECNT	Pedestal Control
	PREAMP	Pre-AMP
	PREBLK	Pre-Blanking
	PT	Protect for V Voltage
	PWM	Pulse Width Modulation
R	R/B	Read/Busy
	R-Y KB	R-Y Carrier Balance
	RAD	Read Address Data
	RAE	Read Address Enable
	RE	Read Enable
	RE	Rotary Erase Head
	REC CCNT	Rec Current Control
	RECCTRL	Recording Control Pulse
	RERASE	Rotary Erase Head
	RST	Reset
	RSTPWD	Reset Power Down Input
	RSTR	Reset Read
	RSTW	Reset Write
	RW	Read Write
	RWAE	Read Write Enable

INITIAL/LOGO		ABBREVIATIONS
S	S PHOT	Supply Photo Transistor
	SDET	S-VHS Detect
	STAB	S-VHS Tab Switch
	ST5V	Safety Tab 5V
	STAB	Safety Tab Switch
	SNS LED	Sensor LED
	SCK/SCLK	Serial Clock
	SBD	Serial Data
	SBI	Serial Data Input
	SBO	Serial Data Output
	SO	Serial Data Output
	SIOC	Serial In/Out Control
	SH/IRIS	SHUTTER/IRIS CONTROL
	S/S	Start/Stop
	SUB CNT	Sub Control
	SSG	Sync Signal Generator
T	T PHOT	Take-up Photo Transistor
	TBC	Time Base Conntrol
	TL	Torque Limit
	TRFIX	Tracking Fix
	TRIWAVE	Tracking Wave
	TRP	Tracking Position
U	U/V SEL	R-Y/B-Y Select Signal
	UV SEL	R-Y/B-Y Select Signal
V	V1-V4	V.CCD Drive Pulse
	VB	VH Filter Switching
	VCO	Voltage Control Oscillator
	VCP	Shift Clock Output for Vertical Drive
	VCTRL	Voltage Charge Control
	VD	Vertical Drive Pulse
	VDREC	Video Delayed Rec
	VIN	Video In
	VITC	Vertical Interval Time Code
	VL	Low Voltage
	VM	Motor Voltage
	VMD1-3	Electric Shutter Mode
	VMODE	NTSC/PAL Select Switch
	VMVH	VH Filter Switching
	VORP	Video Overlap
	VRB	Voltage Refference Bottom
	VREF1R3V	Refference Voltage 1.3V
	VREF3R3V	Refference Voltage 3.3V
	VREFH	Refference Voltage High Side
	VREFL	Refference Voltage Low Side
	VRI	Refference Voltage Input
	VRO	Refference Voltage Output
	VRT	Voltage Refference Top
	VSS	Vertical Sync Signal
W	WAD/WAE	Write Address Enable
	WB	White Balance
	WE	Write Enable
	WEM	Memory Write Enable
	WHD	Wide Horizontal Drive Pulse
Y	YNCST	Noize Canceller
	YNR	Noise Reduction
Z	Z.ENC	Zoom Encoder
	Z.MIC	Zoom Mic
	ZENC	Zoom Encoder Output
	ZMT(+)/(-)	Zoom Motor (+)/(-)
	ZMTER	Zoom Motor Tele Side
	ZMW	Zoom Motor Wide Side

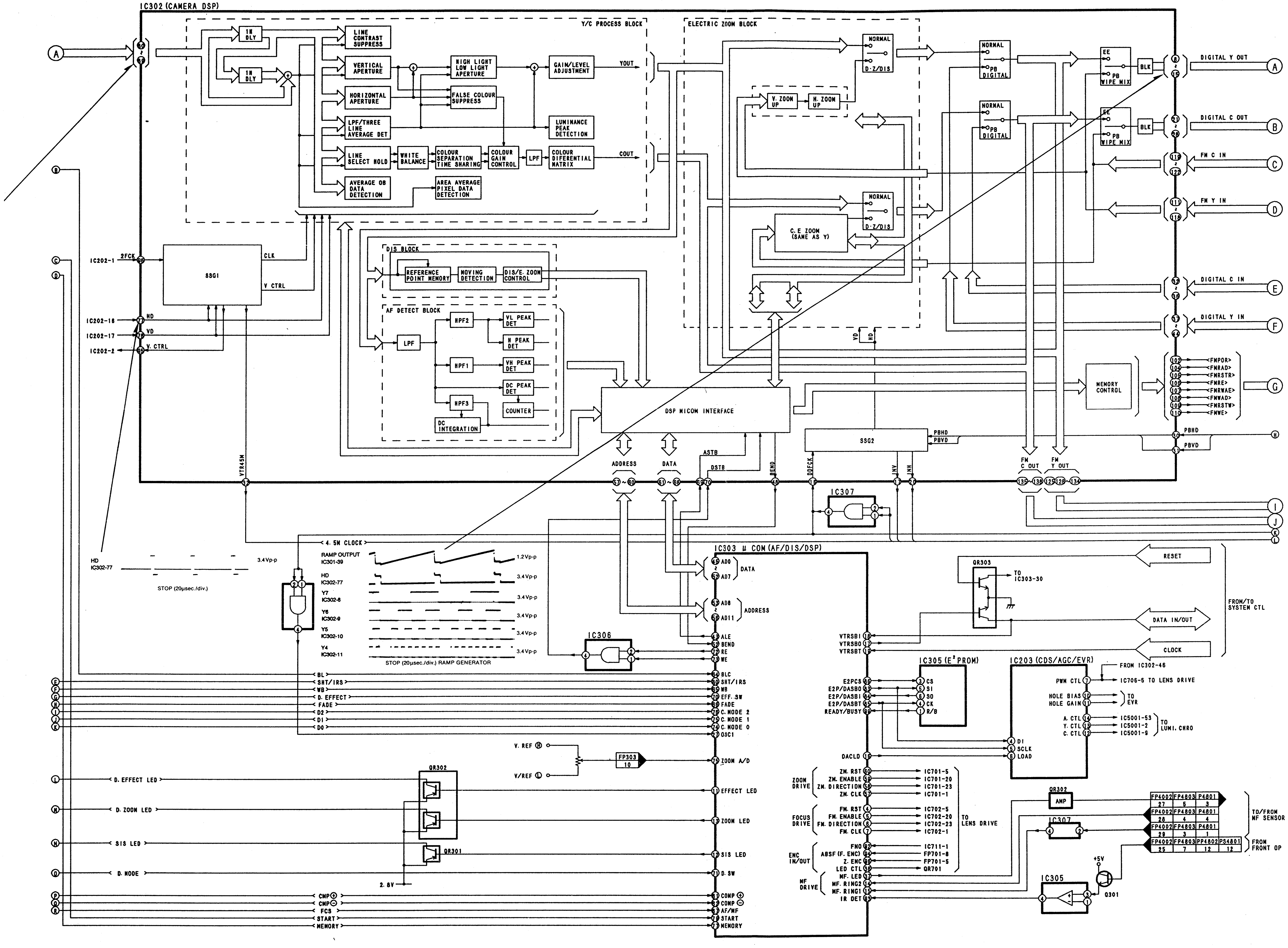
3-2. PROCESS BLOCK DIAGRAM

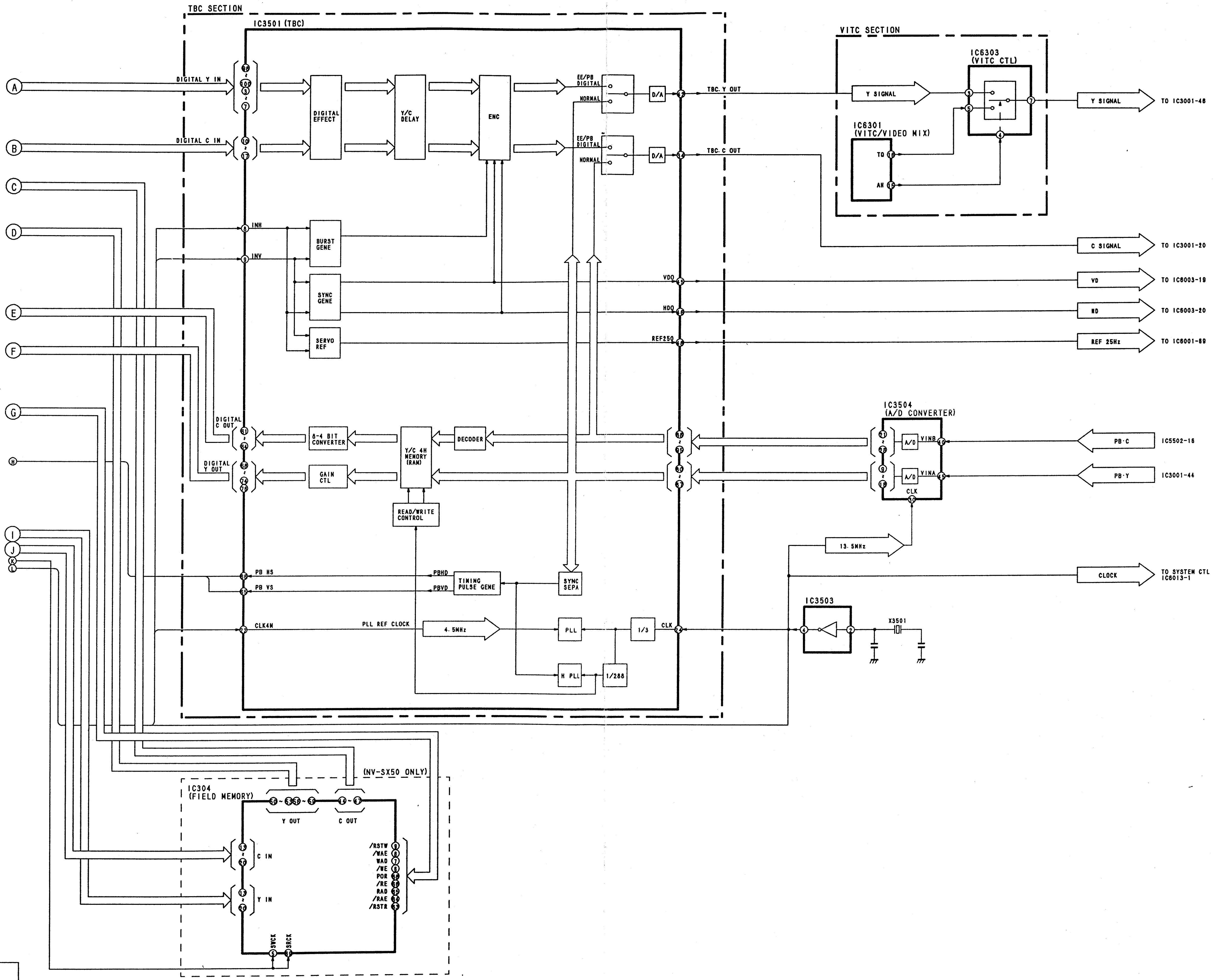

IC301 (A/D CONVERTER)
IC202-17
CDS
VIN
A/D
IC202-60
CLK
IC202-40
VRT
IC202-48
VRB
①
⑤
⑥
⑫
A
BACK LIGHT
FP303 6
FP303 4
BL
B
CAMERA/VTR OPERATION
ONLY NV-SX50
START
MEMORY
SHUTTER IRIS
WB
D. EFFECT, DATE/TITLE (NV-SX30) (NV-SX50)
FADE
FP6006 1
FP6006 2
FP6006 7
FP6006 8
FP6006 9
FP6006 3
FP6006 5
FP6006 4
FP6006 6
FP6006 10
START
MEMORY
SHT/IRS
WB
DE/DATE
FADE
D2
D1
D0
D. EFFECT
DATE TITLE
TO SYSTEM CTL IC6001-31
C
D
AUTO
MANUAL
SPORTS
PORTRAIT
LOW LIGHT
RAMP OUTPUT IC301-39
HD IC302-77
D9 IC301-12, IC302-80
D8 IC301-11, IC302-81
D7 IC301-10, IC302-82
D6 IC301-9, IC302-83
1.2Vp-p
3.4Vp-p
3.4Vp-p
3.4Vp-p
3.4Vp-p
3.4Vp-p
STOP (20μsec./div.) RAMP GENERATOR
DIGITAL OPERATION NV-SX50 ONLY
D. MODE
SIS LED
D. ZOOM LED
D. EFECT LED
D. EFECT
FP301 1
FP301 2
FP301 3
FP301 4
FP301 5
FP301 6
D. MODE
SIS LED
D. ZOOM LED
D. EFFECT LED
D. EFFECT
R327
(NV-SX30 ONLY)
SIS
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
FRONT PANEL
SW1
SW2
SW3
PS4801 10
PP4802 10
FP4803 9
FP4002 23
PS4801 11
PP4802 11
FP4803 8
FP4002 24
PS4801 13
PP4802 13
FP4803 6
FP4002 26
CNP⊕/FCS
FCS/SIS
CNP⊖/MS
FCS
TO IC6001-102 (NV-SX30 ONLY)
MOTION SENSOR
(NV-SX30 ONLY)

	D0	D1	D2
AUTO	H	H	H
MANUAL	L	H	H
SPORTS	L	L	H
PORTRAIT	H	L	H
LOW LIGHT	H	L	L

H:OPEN
L:CONNECT WITH COMON TERMINAL (GND)

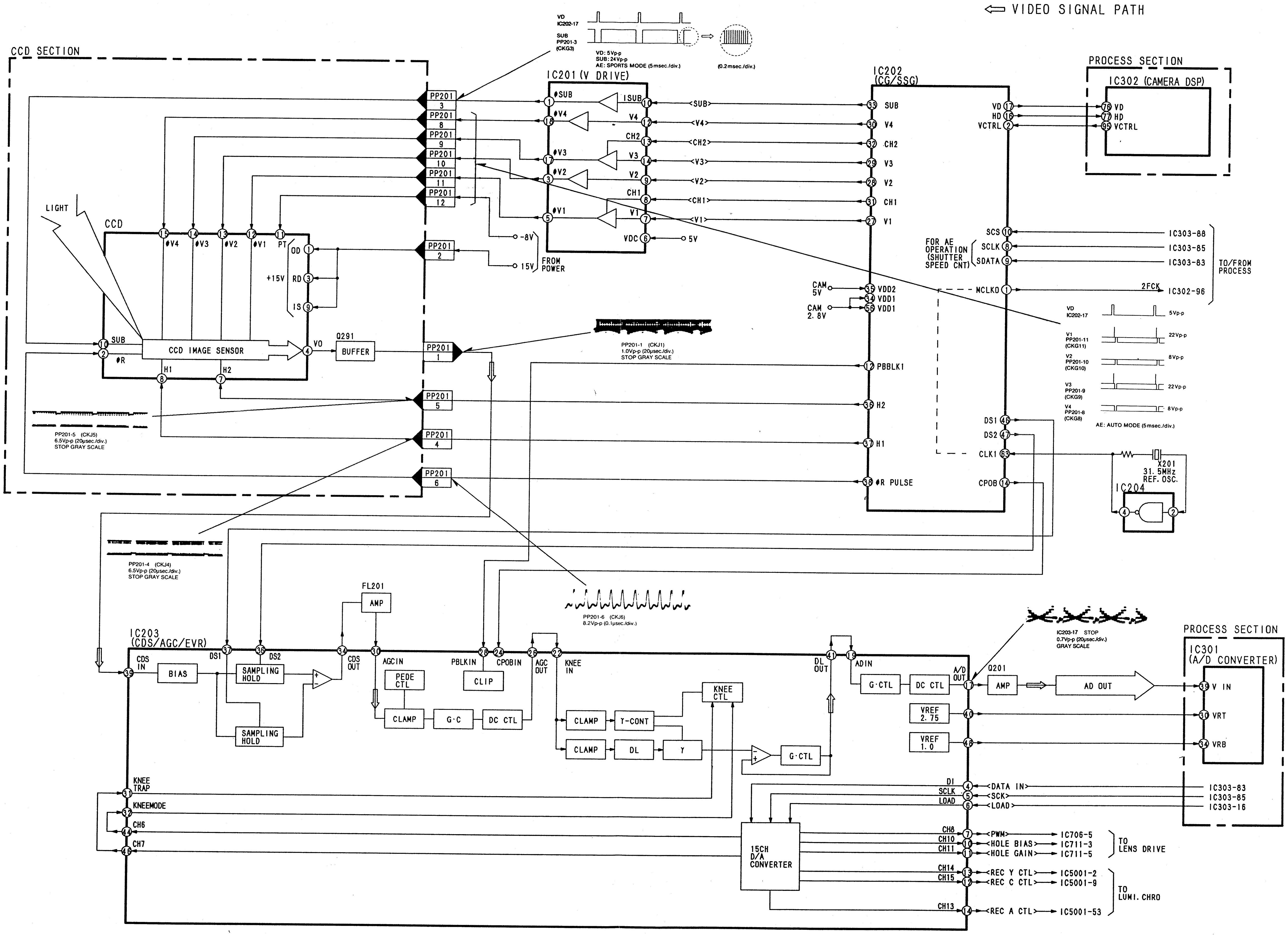
	NV-SX50	NV-SX30
SW1	+	AF/MF
SW2	FOCUS	SIS
SW3	-	MOTION SENSOR


IC302 (CAMERA DSP)
Y/C PROCESS BLOCK
1H DLY
LINE CONTRAST SUPPRESS
VERTICAL APERTURE
HIGH LIGHT LOW LIGHT APERTURE
GAIN/LEVEL ADJUSTMENT
YOUT
HORIZONTAL APERTURE
FALSE COLOUR SUPPRESS
LPF/THREE LINE AVERAGE DET
LUMINANCE PEAK DETECTION
LINE SELECT HOLD
WHITE BALANCE
COLOUR SEPARATION TIME SHARING
COLOUR GAIN CONTROL
LPF
COLOUR DIFERENTIAL MATRIX
COUT
AVERAGE OB DATA DETECTION
AREA AVERAGE PIXEL DATA DETECTION
ELECTRIC ZOOM BLOCK
NORMAL
D-Z/DIS
V. ZOOM UP
H. ZOOM UP
C. E ZOOM (SAME AS Y)
NORMAL
PB DIGITAL
EE
PB WIPE MIX
BLK
DIGITAL Y OUT
DIGITAL C OUT
FM C IN
FM Y IN
DIGITAL C IN
DIGITAL Y IN
SSG1
CLK
Y CTRL
2FCK
IC202-1
IC202-16
IC202-17
IC202-2
HD
VD
Y. CTRL
DIS BLOCK
REFERENCE POINT MEMORY
MOVING DETECTION
DIS/E. ZOOM CONTROL
AF DETECT BLOCK
LPF
HPF2
HPF1
HPF3
VL PEAK DET
H PEAK DET
VH PEAK DET
DC PEAK DET
COUNTER
DC INTEGRATION
DSP MICOM INTERFACE
MEMORY CONTROL
<FMPOR>
<FMRAD>
<FMRSTR>
<FMRE>
<FMRWAE>
<FMWAD>
<FMRSTW>
<FMWE>
SSG2
PBHD
PBVD
VTR4.5M
ADDRESS
DATA
ASTB
DSTB
BEND
DDFCK
HV
HR
FM C OUT
FM Y OUT
IC307
4.5M CLOCK
HD IC302-77
3.4Vp-p
STOP (20μsec./div.)
RAMP OUTPUT IC301-39
1.2Vp-p
HD IC302-77
Y7 IC302-8
Y6 IC302-9
Y5 IC302-10
Y4 IC302-11
STOP (20μsec./div.) RAMP GENERATOR
IC306
IC303 μ COM (AF/DIS/DSP)
AD0
AD7
DATA
AD8
AD11
ADDRESS
ALE
BEND
RE
WE
VTRSB1
VTRSB0
VTRSBT
QR303
TO IC303-30
RESET
DATA IN/OUT
CLOCK
FROM/TO SYSTEM CTL
IC305 (E²PROM)
E2PCS
E2P/DASB0
E2P/DASBI
E2P/DASBT
READY/BUSY
CS
SI
SO
CK
R/B
IC203 (CDS/AGC/EVR)
FROM IC302-46
PWM CTL
IC706-5 TO LENS DRIVE
HOLE BIAS
HOLE GAIN
TO EVR
A. CTL
Y. CTL
C. CTL
IC5001-53
IC5001-2
IC5001-9
TO LUMI. CHRO
DI
SCLK
LOAD
DACLD
BL
SHT/IRS
WB
D. EFFECT
FADE
D2
D1
D0
BLC
EFF. SW
C. MODE 2
C. MODE 1
C. MODE 0
OSC1
V. REF
V/REF
FP303 10
ZOOM A/D
ZOOM DRIVE
ZM. RST
ZM. ENABLE
ZM. DIRECTION
ZM. CLK
IC701-5
IC701-20
IC701-23
IC701-1
FOCUS DRIVE
FM. RST
FM. ENABLE
FM. DIRECTION
FM. CLK
IC702-5
IC702-20
IC702-23
IC702-1
TO LENS DRIVE
ENC IN/OUT
FNO
ABSF (F. ENC)
Z. ENC
LED CTL
IC711-1
FP701-8
FP701-5
QR701
MF DRIVE
MF. LED
MF. RING2
MF. RING1
IR DET
QR302
AMP
FP4002 FP4803 P4801
27 5 3
26 4 4
29 3 1
FP4002 FP4803 PP4802 PS4801
25 7 12 12
TO/FROM MF SENSOR
FROM FRONT OP
IC307
IC305
+5V
Q301
D. EFFECT LED
D. ZOOM LED
SIS LED
D. MODE
QR302
QR301
EFFECT LED
ZOOM LED
SIS LED
D. SW
2.8V
CMP⊕
CMP⊖
FCS
START
MEMORY
COMP ⊕
COMP ⊖
AF/MF
START
MEMORY
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R


TBC SECTION
IC3501 (TBC)
DIGITAL Y IN
DIGITAL C IN
DIGITAL EFFECT
Y/C DELAY
ENC
EE/PB DIGITAL
NORMAL
D/A
TBC. Y OUT
TBC. C OUT
INH
INV
BURST GENE
SYNC GENE
SERVO REF
VDO
HDO
REF250
DIGITAL C OUT
DIGITAL Y OUT
8-4 BIT CONVERTER
GAIN CTL
Y/C 4H MEMORY (RAM)
DECODER
READ/WRITE CONTROL
PB HS
PB VS
PBHD
PBVD
TIMING PULSE GENE
SYNC SEPA
CLK4M
PLL REF CLOCK
4.5MHz
PLL
H PLL
1/3
1/288
CLK
VITC SECTION
IC6303 (VITC CTL)
IC6301 (VITC/VIDEO MIX)
TO
AH
Y SIGNAL
Y SIGNAL
TO IC3001-46
C SIGNAL
TO IC3001-20
VD
TO IC6003-19
HD
TO IC6003-20
REF 25Hz
TO IC6001-69
IC3504 (A/D CONVERTER)
A/D
VINB
VINA
CLK
PB·C
IC5502-16
PB·Y
IC3001-44
13.5MHz
CLOCK
TO SYSTEM CTL IC6013-1
IC3503
X3501
A
B
C
D
E
F
G
H
I
J
K
L
(NV-SX50 ONLY)
IC304 (FIELD MEMORY)
Y OUT
C OUT
C IN
Y IN
/RSTW
/WAE
WAD
/WE
POR
/RE
RAD
/RAE
/RSTR
SWCK
SRCK

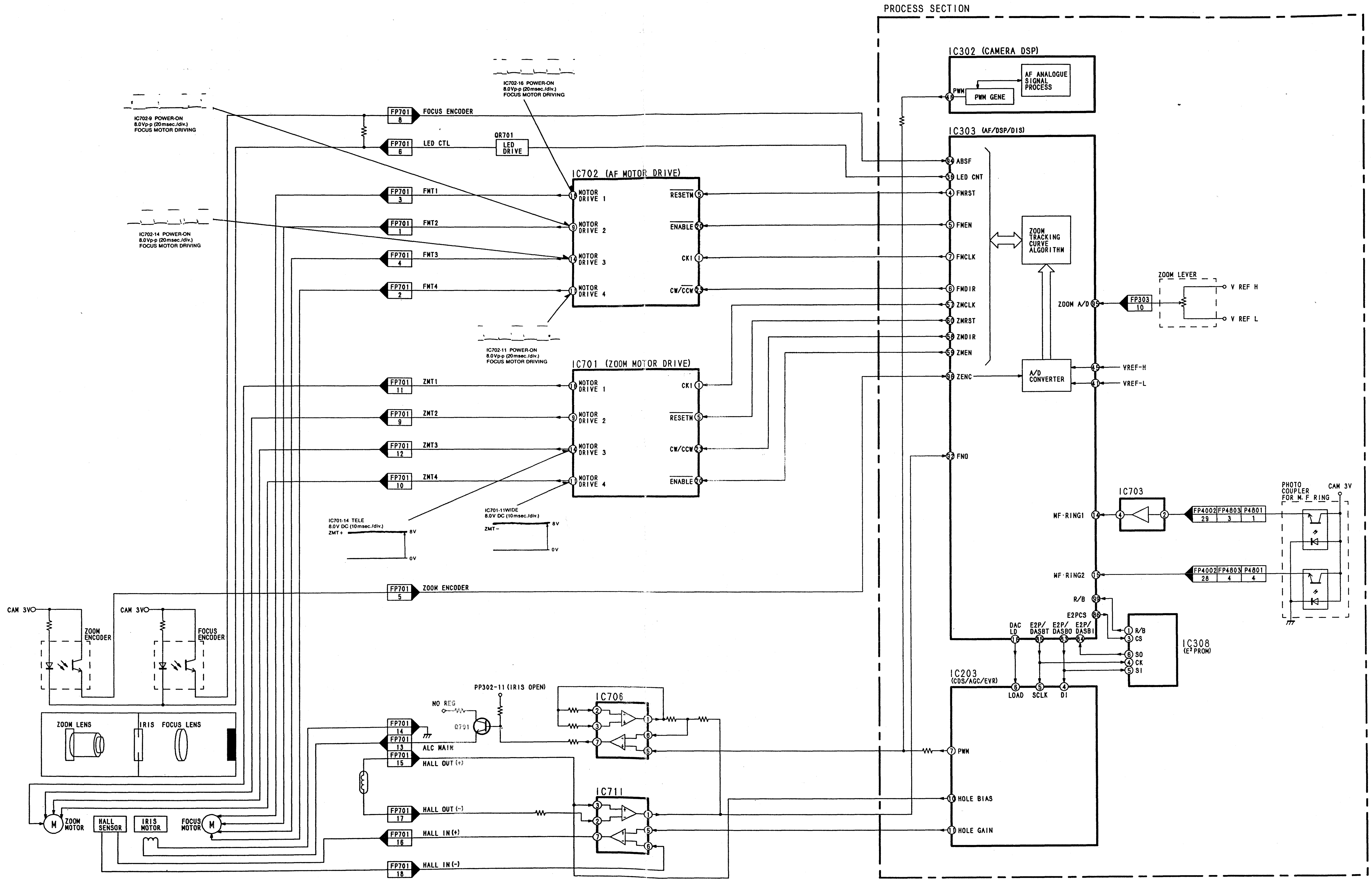
Back Page:
PROCESS Section

3-3. SENSOR BLOCK DIAGRAM



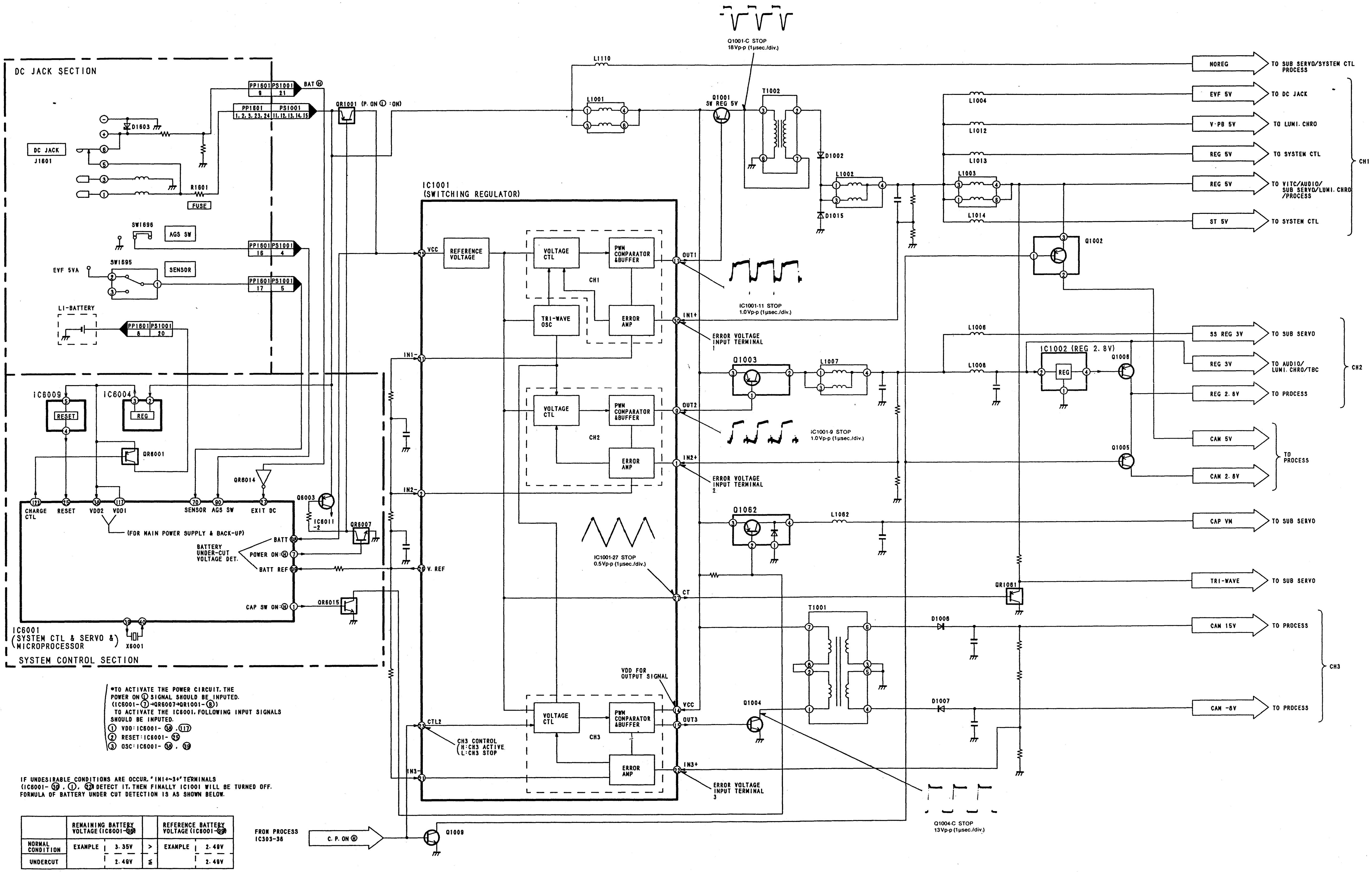
⇐ VIDEO SIGNAL PATH
CCD SECTION
LIGHT
CCD
CCD IMAGE SENSOR
SUB
ϕR
H1
H2
ϕV4
ϕV3
ϕV2
ϕV1
PT
OD
RD
IS
VO
+15V
Q291
BUFFER
PP201 3
PP201 8
PP201 9
PP201 10
PP201 11
PP201 12
PP201 2
PP201 1
PP201 5
PP201 4
PP201 6
-8V
15V
FROM POWER
IC201 (V DRIVE)
ϕSUB
ϕV4
ϕV3
ϕV2
ϕV1
ISUB
V4
CH2
V3
V2
CH1
V1
VDC
5V
VD IC202-17
SUB PP201-3 (CKG3)
VD: 5Vp-p
SUB: 24Vp-p
AE: SPORTS MODE (5msec./div.)
(0.2msec./div.)
IC202 (CG/SSG)
SUB
V4
CH2
V3
V2
CH1
V1
CAM 5V
CAM 2.8V
VDD2
VDD1
VDD1
PBBLK1
H2
H1
ϕR PULSE
VD
HD
VCTRL
SCS
SCLK
SDATA
MCLKO
DS1
DS2
CLK1
CPOB
FOR AE OPERATION (SHUTTER SPEED CNT)
IC303-88
IC303-85
IC303-83
2FCK
IC302-96
TO/FROM PROCESS
PROCESS SECTION
IC302 (CAMERA DSP)
VD
HD
VCTRL
VD IC202-17 5Vp-p
V1 PP201-11 (CKG11) 22Vp-p
V2 PP201-10 (CKG10) 8Vp-p
V3 PP201-9 (CKG9) 22Vp-p
V4 PP201-8 (CKG8) 8Vp-p
AE: AUTO MODE (5msec./div.)
X201 31.5MHz REF. OSC.
IC204
PP201-1 (CKJ1) 1.0Vp-p (20μsec./div.) STOP GRAY SCALE
PP201-5 (CKJ5) 6.5Vp-p (20μsec./div.) STOP GRAY SCALE
PP201-4 (CKJ4) 6.5Vp-p (20μsec./div.) STOP GRAY SCALE
PP201-6 (CKJ6) 8.2Vp-p (0.1μsec./div.)
IC203-17 STOP 0.7Vp-p (20μsec./div.) GRAY SCALE
FL201
AMP
IC203 (CDS/AGC/EVR)
CDS IN
BIAS
DS1
DS2
SAMPLING HOLD
SAMPLING HOLD
CDS OUT
AGCIN
PEDE CTL
CLAMP
G·C
DC CTL
PBLKIN
CPOBIN
CLIP
AGC OUT
KNEE IN
CLAMP
γ-CONT
KNEE CTL
CLAMP
DL
γ
G·CTL
DL OUT
ADIN
G·CTL
DC CTL
A/D OUT
VREF 2.75
VREF 1.0
Q201
AMP
AD OUT
KNEE TRAP
KNEEMODE
CH6
CH7
15CH D/A CONVERTER
DI
SCLK
LOAD
<DATA IN>
<SCK>
<LOAD>
CH8
CH10
CH11
CH14
CH15
CH13
<PWM> IC706-5
<HOLE BIAS> IC711-3
<HOLE GAIN> IC711-5
TO LENS DRIVE
<REC Y CTL> IC5001-2
<REC C CTL> IC5001-9
<REC A CTL> IC5001-53
TO LUMI. CHRO
IC303-83
IC303-85
IC303-16
PROCESS SECTION
IC301 (A/D CONVERTER)
V IN
VRT
VRB

3-4. LENS DRIVE BLOCK DIAGRAM


PROCESS SECTION
IC702-9 POWER-ON
8.0Vp-p (20msec./div.)
FOCUS MOTOR DRIVING
IC702-16 POWER-ON
8.0Vp-p (20msec./div.)
FOCUS MOTOR DRIVING
IC702-14 POWER-ON
8.0Vp-p (20msec./div.)
FOCUS MOTOR DRIVING
IC702-11 POWER-ON
8.0Vp-p (20msec./div.)
FOCUS MOTOR DRIVING
FP701 8
FOCUS ENCODER
FP701 6
LED CTL
QR701
LED DRIVE
FP701 3
FMT1
FP701 1
FMT2
FP701 4
FMT3
FP701 2
FMT4
IC702 (AF MOTOR DRIVE)
16 MOTOR DRIVE 1
9 MOTOR DRIVE 2
14 MOTOR DRIVE 3
11 MOTOR DRIVE 4
RESETN 5
ENABLE 20
CKI 1
CW/CCW 23
IC701 (ZOOM MOTOR DRIVE)
FP701 11
ZMT1
FP701 9
ZMT2
FP701 12
ZMT3
FP701 10
ZMT4
16 MOTOR DRIVE 1
9 MOTOR DRIVE 2
14 MOTOR DRIVE 3
11 MOTOR DRIVE 4
CKI 1
RESETN 5
CW/CCW 23
ENABLE 20
IC701-14 TELE
8.0V DC (10msec./div.)
ZMT+
8V
0V
IC701-11WIDE
8.0V DC (10msec./div.)
ZMT−
8V
0V
FP701 5
ZOOM ENCODER
CAM 3V
ZOOM ENCODER
CAM 3V
FOCUS ENCODER
ZOOM LENS
IRIS
FOCUS LENS
M
ZOOM MOTOR
HALL SENSOR
IRIS MOTOR
FOCUS MOTOR
M
PP302-11 (IRIS OPEN)
NO REG
Q701
FP701 14
FP701 13
ALC MAIN
FP701 15
HALL OUT (+)
FP701 17
HALL OUT (−)
FP701 16
HALL IN (+)
FP701 18
HALL IN (−)
IC706
IC711
IC302 (CAMERA DSP)
PWM
46
PWM GENE
AF ANALOGUE SIGNAL PROCESS
IC303 (AF/DSP/DIS)
94 ABSF
36 LED CNT
4 FMRST
5 FMEN
7 FMCLK
6 FMDIR
57 ZMCLK
60 ZMRST
58 ZMDIR
59 ZMEN
96 ZENC
92 FNO
ZOOM TRACKING CURVE ALGORITHM
A/D CONVERTER
ZOOM A/D 95
45 VREF-H
41 VREF-L
FP303 10
ZOOM LEVER
V REF H
V REF L
IC703
MF·RING1 14
MF·RING2 15
FP4002 29 FP4803 3 P4801 1
FP4002 28 FP4803 4 P4801 4
PHOTO COUPLER FOR M.F RING
CAM 3V
R/B 99
E2PCS 86
DAC LD 16
E2P/ DASBT 85
E2P/ DASBO 83
E2P/ DASBI 84
IC308 (E² PROM)
1 R/B
3 CS
6 SO
4 CK
5 SI
IC203 (CDS/AGC/EVR)
6 LOAD
5 SCLK
4 DI
7 PWM
10 HOLE BIAS
11 HOLE GAIN

Back Page:
SENSOR Section

3-5. POWER BLOCK DIAGRAM

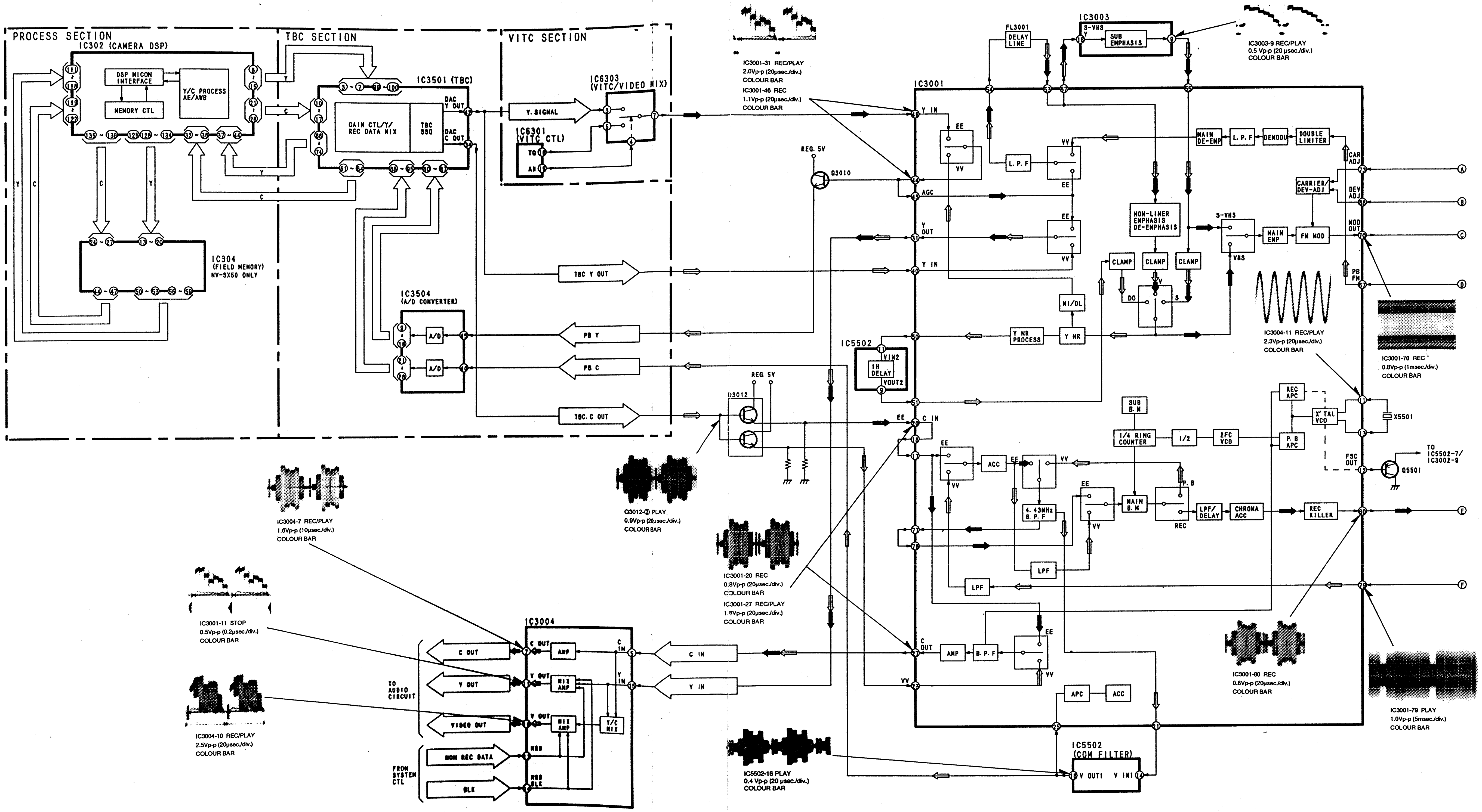

Q1001-C STOP
18Vp-p (1μsec./div.)
DC JACK SECTION
DC JACK
J1601
D1603
R1601
FUSE
PP1601 PS1001 9 21
BAT Ⓗ
PP1601 PS1001 1, 2, 3, 23, 24 11, 12, 13, 14, 15
QR1001 (P. ON Ⓛ : ON)
SW1696
AGS SW
PP1601 PS1001 16 4
EVF 5VA
SW1695
SENSOR
PP1601 PS1001 17 5
LI-BATTERY
PP1601 PS1001 8 20
IC6009
RESET
IC6004
REG
QR6001
QR6014
Q6003
IC6011 -2
QR6007
CHARGE CTL
RESET
VDD2
VDD1
SENSOR
AGS SW
EXIT DC
(FOR MAIN POWER SUPPLY & BACK-UP)
BATT
BATTERY UNDER-CUT VOLTAGE DET.
POWER ON Ⓛ
BATT REF
CAP SW ON Ⓗ
QR6015
IC6001
(SYSTEM CTL & SERVO & MICROPROCESSOR)
X6001
SYSTEM CONTROL SECTION
L1110
L1001
Q1001
SW REG 5V
T1002
D1002
D1015
L1002
IC1001
(SWITCHING REGULATOR)
VCC
REFERENCE VOLTAGE
VOLTAGE CTL
PWM COMPARATOR &BUFFER
CH1
TRI-WAVE OSC
ERROR AMP
OUT1
IN1+
IN1-
IC1001-11 STOP
1.0Vp-p (1μsec./div.)
ERROR VOLTAGE INPUT TERMINAL 1
Q1003
L1007
OUT2
IN2+
IN2-
CH2
IC1001-9 STOP
1.0Vp-p (1μsec./div.)
ERROR VOLTAGE INPUT TERMINAL 2
Q1062
L1062
IC1001-27 STOP
0.5Vp-p (1μsec./div.)
V. REF
CT
T1001
D1006
D1007
VDD FOR OUTPUT SIGNAL
VCC
OUT3
IN3+
IN3-
CTL2
CH3
CH3 CONTROL (H:CH3 ACTIVE L:CH3 STOP)
ERROR VOLTAGE INPUT TERMINAL 3
Q1004
Q1004-C STOP
13Vp-p (1μsec./div.)
FROM PROCESS IC303-38
C. P. ON Ⓗ
Q1009
L1004
L1012
L1013
L1003
L1014
Q1002
NOREG
TO SUB SERVO/SYSTEM CTL PROCESS
EVF 5V
TO DC JACK
V·PB 5V
TO LUMI. CHRO
REG 5V
TO SYSTEM CTL
REG 5V
TO VITC/AUDIO/ SUB SERVO/LUMI. CHRO /PROCESS
ST 5V
TO SYSTEM CTL
CH1
L1006
L1008
IC1002 (REG 2.8V)
REG
Q1008
SS REG 3V
TO SUB SERVO
REG 3V
TO AUDIO/ LUMI. CHRO/TBC
REG 2.8V
TO PROCESS
CH2
Q1005
CAM 5V
CAM 2.8V
TO PROCESS
CAP VM
TO SUB SERVO
QR1061
TRI-WAVE
TO SUB SERVO
CAM 15V
TO PROCESS
CAM -8V
TO PROCESS
CH3

•TO ACTIVATE THE POWER CIRCUIT, THE POWER ON Ⓛ SIGNAL SHOULD BE INPUTED. (IC6001-⑦→QR6007→QR1001-⑧)
TO ACTIVATE THE IC6001, FOLLOWING INPUT SIGNALS SHOULD BE INPUTED.
① VDD: IC6001- ㊳, (117)
② RESET: IC6001- ㉕
③ OSC: IC6001- ㊳, ㊴

IF UNDESIRABLE CONDITIONS ARE OCCUR, "IN1+~3+" TERMINALS (IC6001- ㉚, ①, ㉒) DETECT IT, THEN FINALLY IC1001 WILL BE TURNED OFF. FORMULA OF BATTERY UNDER CUT DETECTION IS AS SHOWN BELOW.

	REMAINING BATTERY VOLTAGE (IC6001-(98))			REFERENCE BATTERY VOLTAGE (IC6001-(99))	
NORMAL CONDITION	EXAMPLE	3.35V	>	EXAMPLE	2.49V
UNDERCUT		2.49V	≦		2.49V

3-6. LUMINANCE / CHROMINANCE BLOCK DIAGRAM


PROCESS SECTION
IC302 (CAMERA DSP)
DSP MICON INTERFACE
MEMORY CTL
Y/C PROCESS AE/AWB
IC304 (FIELD MEMORY) NV-SX50 ONLY
TBC SECTION
IC3501 (TBC)
GAIN CTL/Y/ REC DATA MIX
TBC SSG
DAC Y OUT
DAC C OUT
IC3504 (A/D CONVERTER)
A/D
VITC SECTION
IC6303 (VITC/VIDEO MIX)
IC6301 (VITC CTL)
Y. SIGNAL
TBC Y OUT
PB Y
PB C
TBC. C OUT
Y
C
REG. 5V
Q3010
Q3012
IC5502
1H DELAY
VIN2
VOUT2
FL3001
DELAY LINE
IC3003
S-VHS Y
SUB EMPHASIS
IC3001
Y IN
AGC
Y OUT
EE
VV
L. P. F
MAIN DE-EMP
DEMODU
DOUBLE LIMITER
CAR ADJ
CARRIER/ DEV-ADJ
DEV ADJ
NON-LINER EMPHASIS DE-EMPHASIS
S-VHS
VHS
MAIN EMP
FM MOD
MOD OUT
PB FM
CLAMP
DO
V
S
MI/DL
Y NR PROCESS
Y NR
C IN
ACC
4. 43MHz B. P. F
LPF
SUB B. M
1/4 RING COUNTER
1/2
2FC VCO
REC APC
P. B APC
X' TAL VCO
X5501
FSC OUT
Q5501
TO IC5502-7/ IC3002-9
MAIN B. M
P. B
REC
LPF/ DELAY
CHROMA ACC
REC KILLER
C OUT
AMP
B. P. F
APC
IC5502 (COM FILTER)
V OUT1
V IN1
IC3004
C OUT
Y OUT
V OUT
C IN
Y IN
MIX AMP
Y/C MIX
VIDEO OUT
NON REC DATA
BLK
NRD
NRD BLK
TO AUDIO CIRCUIT
FROM SYSTEM CTL
A
B
C
D
E
F

IC3001-31 REC/PLAY
2.0Vp-p (20μsec./div.)
COLOUR BAR

IC3001-46 REC
1.1Vp-p (20μsec./div.)
COLOUR BAR

IC3003-9 REC/PLAY
0.5 Vp-p (20 μsec./div.)
COLOUR BAR

IC3004-11 REC/PLAY
2.3Vp-p (20μsec./div.)
COLOUR BAR

IC3001-70 REC
0.8Vp-p (1msec./div.)
COLOUR BAR

Q3012-② PLAY
0.9Vp-p (20μsec./div.)
COLOUR BAR

IC3004-7 REC/PLAY
1.6Vp-p (10μsec./div.)
COLOUR BAR

IC3001-20 REC
0.8Vp-p (20μsec./div.)
COLOUR BAR

IC3001-27 REC/PLAY
1.8Vp-p (20μsec./div.)
COLOUR BAR

IC3001-11 STOP
0.5Vp-p (0.2μsec./div.)
COLOUR BAR

IC3004-10 REC/PLAY
2.5Vp-p (20μsec./div.)
COLOUR BAR

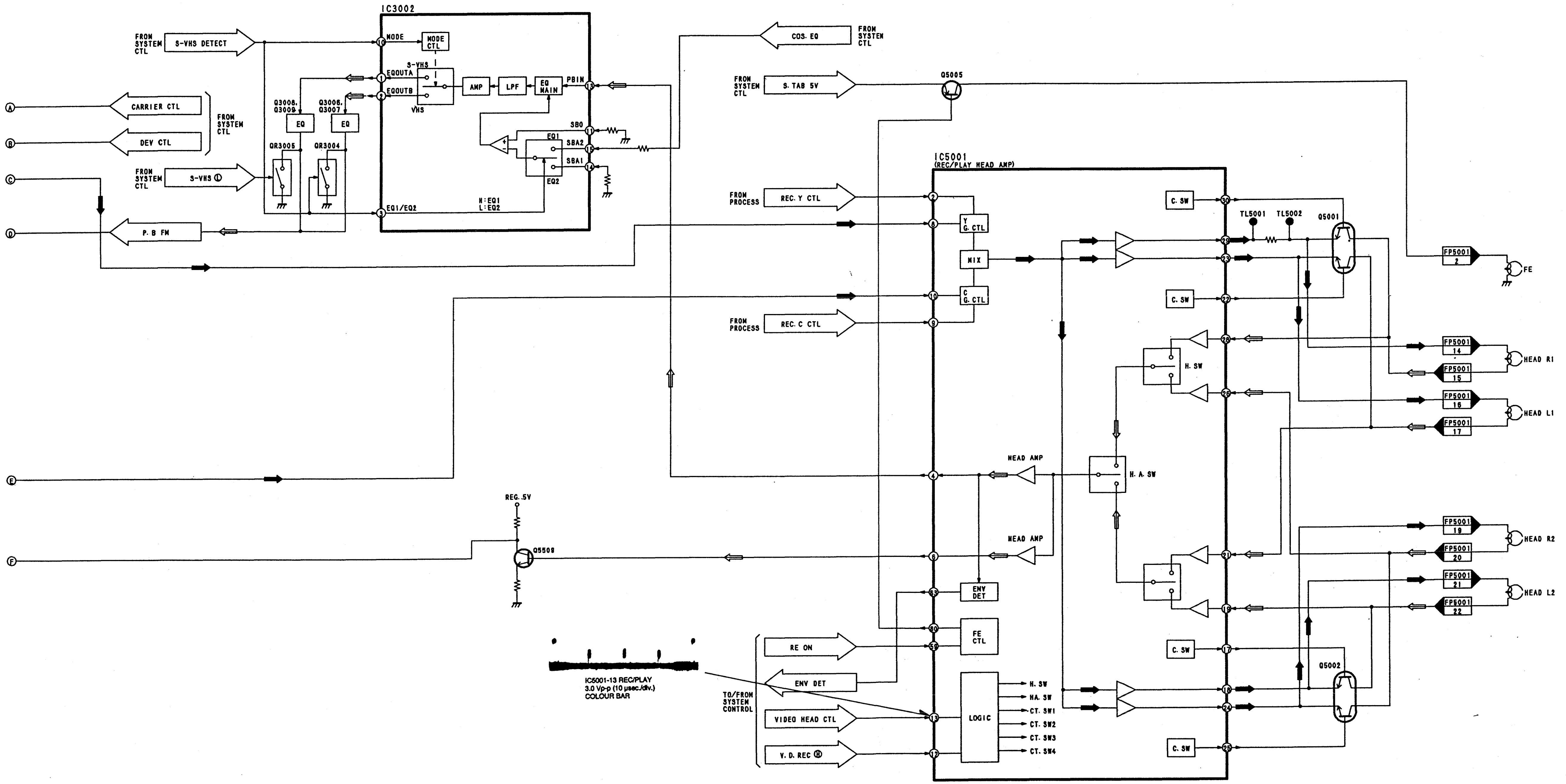
IC5502-16 PLAY
0.4 Vp-p (20 μsec./div.)
COLOUR BAR

IC3001-80 REC
0.6Vp-p (20μsec./div.)
COLOUR BAR

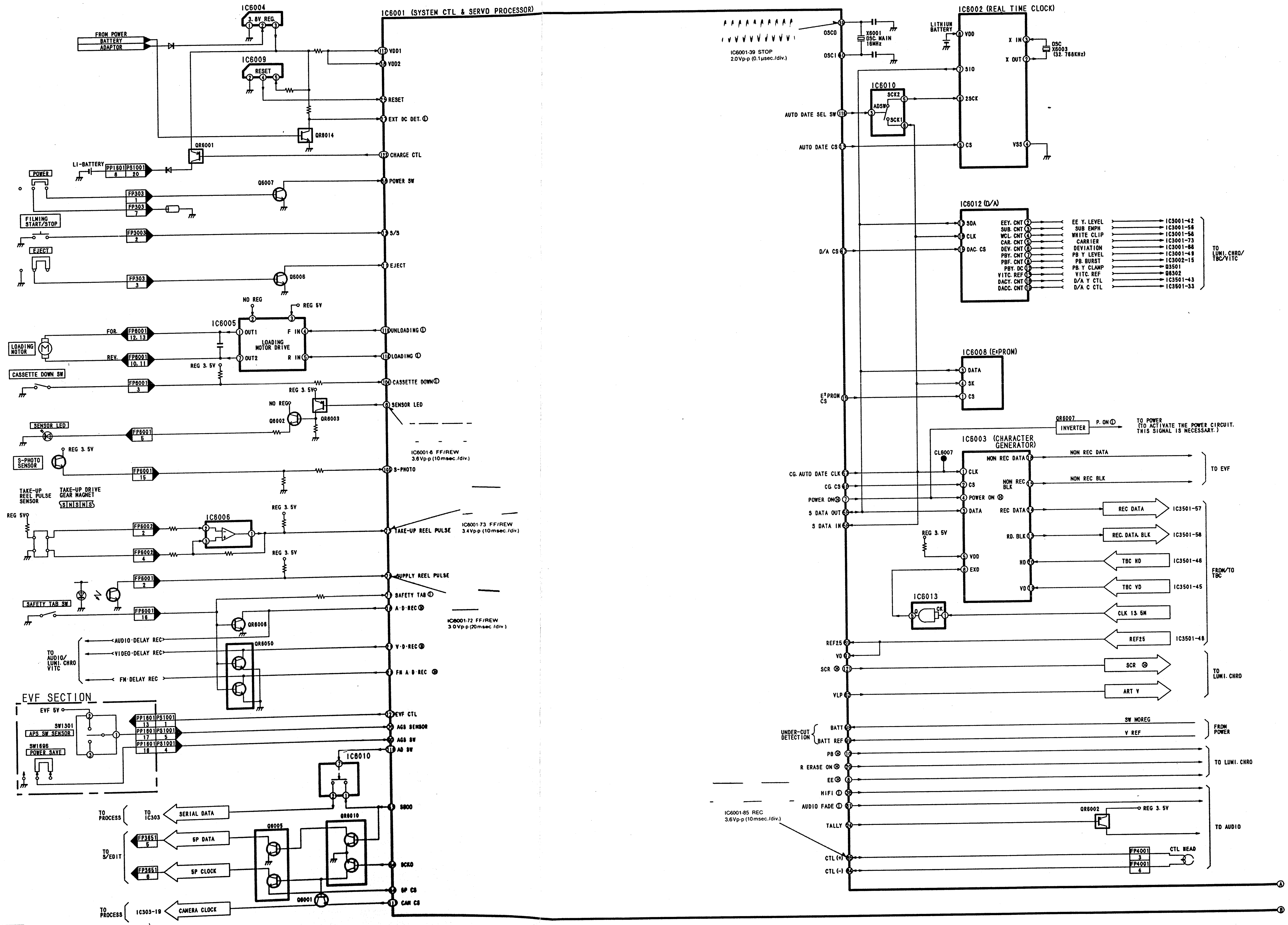
IC3001-79 PLAY
1.0Vp-p (5msec./div.)
COLOUR BAR

Back Page:
POWER Section

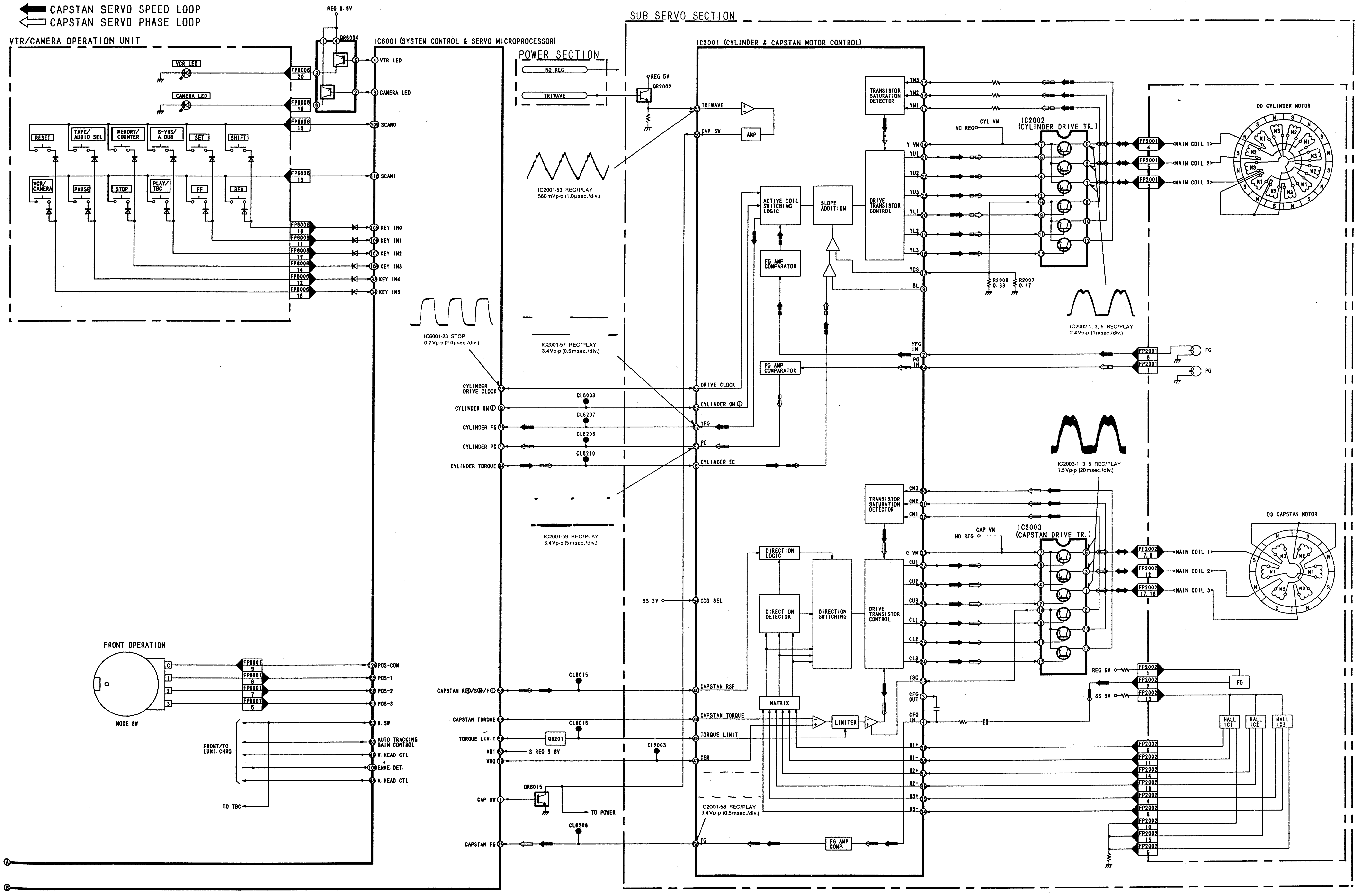
⬅ MAIN SIGNAL PATH IN REC MODE ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE


IC3002
FROM SYSTEM CTL
S-VHS DETECT
MODE
MODE CTL
S-VHS
EQOUTA
EQOUTB
VHS
AMP
LPF
EQ MAIN
PBIN
SBO
SBA2
SBA1
EQ1
EQ2
EQ1/EQ2
H:EQ1
L:EQ2
Q3008, Q3009
Q3006, Q3007
EQ
EQ
QR3005
QR3004
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
Ⓕ
CARRIER CTL
DEV CTL
FROM SYSTEM CTL
S-VHS Ⓛ
P. B FM
COS. EQ
FROM SYSTEM CTL
S. TAB 5V
Q5005
IC5001
(REC/PLAY HEAD AMP)
FROM PROCESS
REC. Y CTL
REC. C CTL
Y G. CTL
MIX
C G. CTL
C. SW
TL5001
TL5002
Q5001
Q5002
FP5001 2
FE
FP5001 14
FP5001 15
HEAD R1
FP5001 16
FP5001 17
HEAD L1
FP5001 19
FP5001 20
HEAD R2
FP5001 21
FP5001 22
HEAD L2
H. SW
H. A. SW
HEAD AMP
HEAD AMP
ENV DET
FE CTL
LOGIC
H. SW
HA. SW
CT. SW1
CT. SW2
CT. SW3
CT. SW4
REG. 5V
Q5509
RE ON
ENV DET
VIDEO HEAD CTL
V. D. REC Ⓗ
TO/FROM SYSTEM CONTROL
IC5001-13 REC/PLAY
3.0 Vp-p (10 μsec./div.)
COLOUR BAR

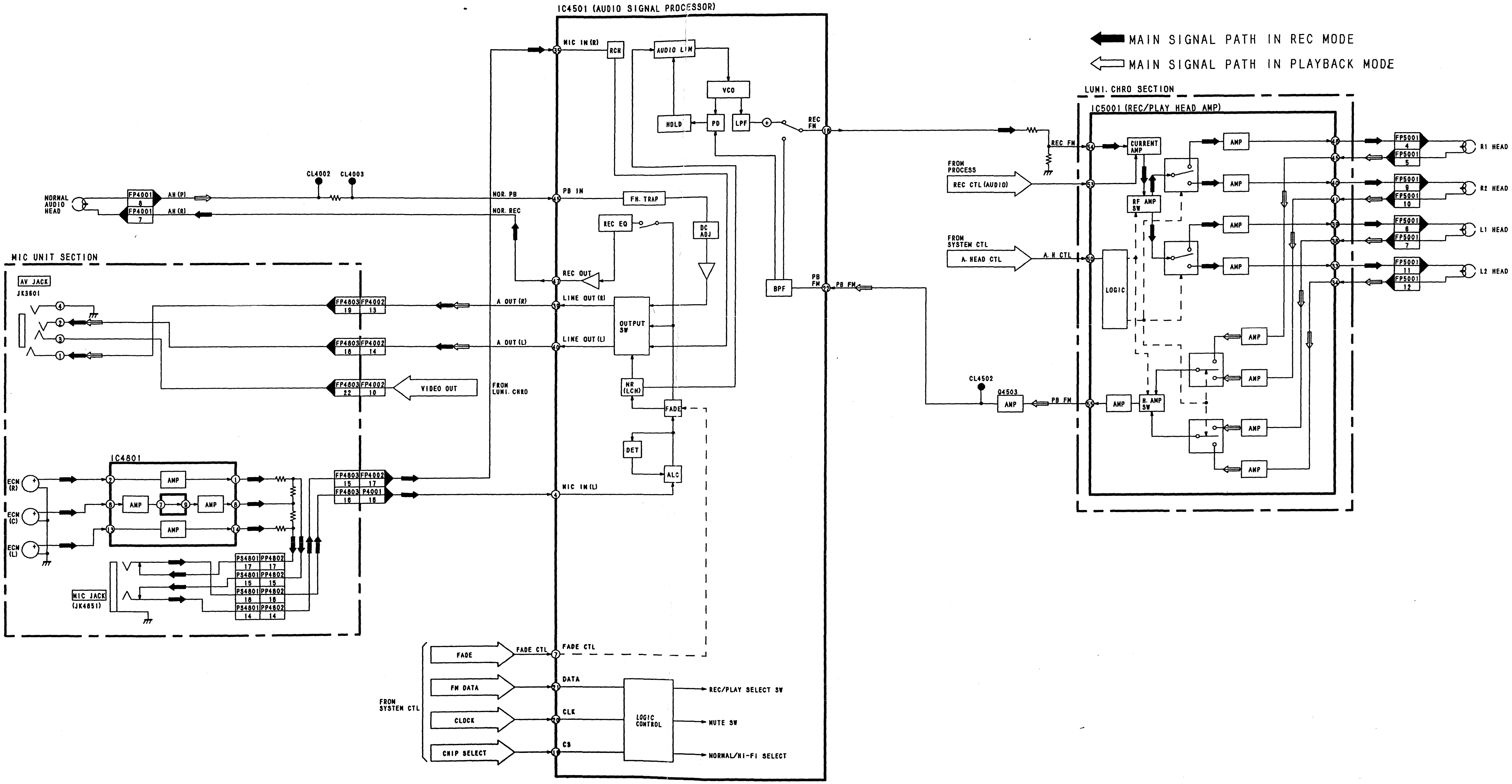
3-7. SYSTEM CONTROL & SERVO BLOCK DIAGRAM


IC6004
3.8V REG.
FROM POWER
BATTERY
ADAPTOR
IC6001 (SYSTEM CTL & SERVO PROCESSOR)
VDD1
VDD2
IC6009
RESET
RESET
EXT DC DET. Ⓛ
QR6014
QR6001
CHARGE CTL
LI-BATTERY
PP1601 8
PS1001 20
POWER
FP303 1
FP303 7
Q6007
POWER SW
FILMING START/STOP
FP3003 2
S/S
EJECT
FP303 3
Q6006
EJECT
NO REG
REG 5V
IC6005
OUT1
F IN
LOADING MOTOR DRIVE
OUT2
R IN
FOR.
FP6001 12, 13
LOADING MOTOR
REV.
FP6001 10, 11
REG 3.5V
UNLOADING Ⓛ
LOADING Ⓛ
CASSETTE DOWN SW
FP6001 3
CASSETTE DOWN Ⓛ
REG 3.5V
NO REG
QR6003
Q6002
SENSOR LED
SENSOR LED
FP6001 5
IC6001-6 FF/REW
3.6Vp-p (10msec./div.)
REG 3.5V
S-PHOTO SENSOR
FP6001 15
S-PHOTO
TAKE-UP REEL PULSE SENSOR
TAKE-UP DRIVE GEAR MAGNET
S N S N S
REG 5V
FP6002 2
FP6002 4
IC6006
REG 3.5V
TAKE-UP REEL PULSE
IC6001-73 FF/REW
3.4Vp-p (10msec./div.)
REG 3.5V
FP6001 2
SUPPLY REEL PULSE
SAFETY TAB SW
SAFETY TAB Ⓛ
FP6001 16
A·D·REC Ⓗ
QR6008
IC6001-72 FF/REW
3.0Vp-p (20msec./div.)
TO AUDIO/ LUMI. CHRO VITC
AUDIO·DELAY REC
VIDEO·DELAY REC
FM·DELAY REC
QR6050
V·D·REC Ⓗ
FM A·D·REC Ⓗ
EVF SECTION
EVF 5V
SW1301
APS SW SENSOR
SW1696
POWER SAVE
PP1601 13
PS1001 1
PP1601 17
PS1001 5
PP1601 16
PS1001 4
EVF CTL
AGS SENSOR
AGS SW
AD SW
IC6010
SBDO
TO PROCESS
TO IC303
SERIAL DATA
TO S/EDIT
FP3651 5
5P DATA
FP3651 6
5P CLOCK
Q6005
QR6010
SCKO
5P CS
Q6001
CAM CS
TO PROCESS
IC303-19
CAMERA CLOCK
IC6001-39 STOP
2.0Vp-p (0.1μsec./div.)
OSCO
OSCI
X6001
OSC. MAIN
16MHz
IC6002 (REAL TIME CLOCK)
LITHIUM BATTERY
VDD
X IN
X OUT
OSC
X6003
(32.768KHz)
SIO
IC6010
SCK2
ADSW
SCK1
2SCK
AUTO DATE SEL SW
AUTO DATE CS
CS
VSS
IC6012 (D/A)
SDA
CLK
DAC. CS
D/A CS
EEY. CNT
SUB. CNT
WCL. CNT
CAR. CNT
DEV. CNT
PBY. CNT
PBF. CNT
PBY. DC
VITC. REF
DACY. CNT
DACC. CNT
EE Y. LEVEL
SUB EMPH
WHITE CLIP
CARRIER
DEVIATION
PB Y LEVEL
PB. BURST
PB. Y CLAMP
VITC. REF
D/A Y CTL
D/A C CTL
IC3001-42
IC3001-56
IC3001-58
IC3001-73
IC3001-68
IC3001-49
IC3002-15
Q3501
Q6302
IC3501-43
IC3501-33
TO LUMI. CHRO/ TBC/VITC
IC6008 (E²PROM)
DATA
SK
CS
E²PROM CS
QR6007
INVERTER
P. ON Ⓛ
TO POWER
(TO ACTIVATE THE POWER CIRCUIT. THIS SIGNAL IS NECESSARY.)
IC6003 (CHARACTER GENERATOR)
CL6007
NON REC DATA
NON REC BLK
NON REC DATA
NON REC BLK
TO EVF
CG. AUTO DATE CLK
CG. CS
POWER ON Ⓗ
S DATA OUT
S DATA IN
CLK
CS
POWER ON Ⓗ
DATA
REC DATA
REC DATA
IC3501-57
RD. BLK
REC. DATA BLK
IC3501-58
REG 3.5V
VDD
EXD
HD
TBC HD
IC3501-46
VD
TBC VD
IC3501-45
FROM/TO TBC
IC6013
CK
CLK 13.5M
REF25
REF25
IC3501-48
VD
SCR Ⓗ
SCR Ⓗ
VLP
ART Y
TO LUMI. CHRO
UNDER-CUT DETECTION
BATT
BATT REF
SW NOREG
V REF
FROM POWER
PB Ⓗ
R ERASE ON Ⓗ
EE Ⓗ
TO LUMI. CHRO
HIFI Ⓛ
AUDIO FADE Ⓛ
QR6002
REG 3.5V
TALLY
TO AUDIO
IC6001-85 REC
3.6Vp-p (10msec./div.)
CTL (+)
CTL (-)
FP4001 3
FP4001 4
CTL HEAD
Ⓐ
Ⓑ

Back Page:
LUMI/CHRO Section

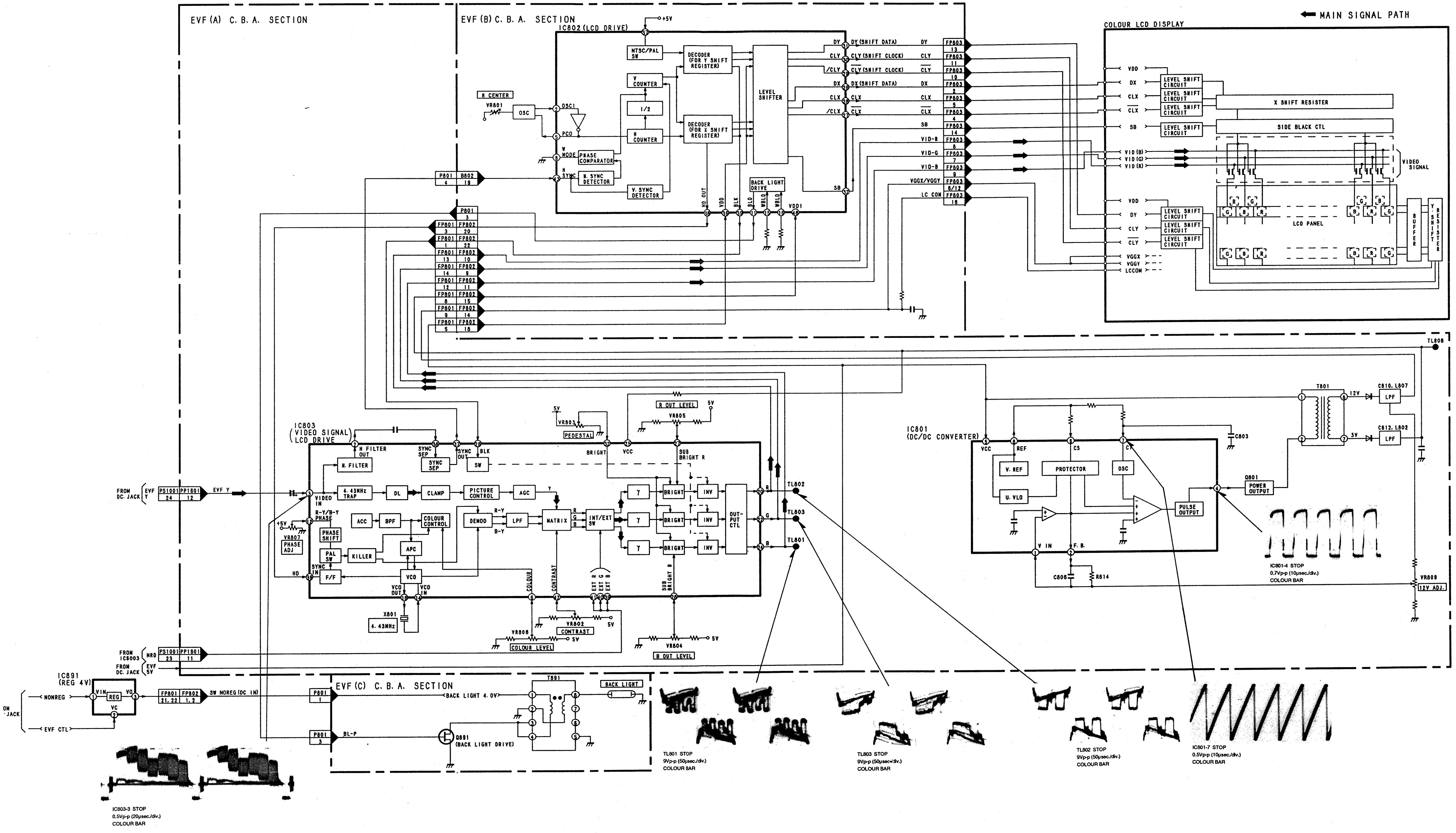

CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
VTR/CAMERA OPERATION UNIT
VCR LED
CAMERA LED
RESET
TAPE/ AUDIO SEL
MEMORY/ COUNTER
S-VHS/ A. DUB
SET
SHIFT
VCR/ CAMERA
PAUSE
STOP
PLAY/ TBC
FF
REW
FP6006
REG 3. 5V
QR6004
IC6001 (SYSTEM CONTROL & SERVO MICROPROCESSOR)
VTR LED
CAMERA LED
SCAN0
SCAN1
KEY IN0
KEY IN1
KEY IN2
KEY IN3
KEY IN4
KEY IN5
POWER SECTION
NO REG
TRIWAVE
IC2001-53 REC/PLAY
560 mVp-p (1.0µsec./div.)
IC6001-23 STOP
0.7 Vp-p (2.0µsec./div.)
IC2001-57 REC/PLAY
3.4 Vp-p (0.5 msec./div.)
IC2001-59 REC/PLAY
3.4 Vp-p (5 msec./div.)
IC2001-58 REC/PLAY
3.4 Vp-p (0.5 msec./div.)
CYLINDER DRIVE CLOCK
CYLINDER ON ①
CYLINDER FG
CYLINDER PG
CYLINDER TORQUE
CL6003
CL6207
CL6206
CL6210
FRONT OPERATION
MODE SW
FP6001
POS-COM
POS-1
POS-2
POS-3
H. SW
AUTO TRACKING GAIN CONTROL
V. HEAD CTL
ENVE. DET.
A. HEAD CTL
FRONT/TO LUMI. CHRO
TO TBC
CAPSTAN R⊕/S⊕/F①
CAPSTAN TORQUE
TORQUE LIMIT
VRI
VRO
S REG 3. 8V
Q6201
CL6015
CL6016
CL2003
CAP SW
QR6015
TO POWER
CAPSTAN FG
CL6208
SUB SERVO SECTION
REG 5V
QR2002
IC2001 (CYLINDER & CAPSTAN MOTOR CONTROL)
TRIWAVE
CAP SW
AMP
TRANSISTOR SATURATION DETECTOR
ACTIVE COIL SWITCHING LOGIC
SLOPE ADDITION
DRIVE TRANSISTOR CONTROL
FG AMP COMPARATOR
PG AMP COMPARATOR
YM3
YM2
YM1
Y VM
YU1
YU2
YU3
YL1
YL2
YL3
YCS
SL
YFG IN
PG IN
DRIVE CLOCK
CYLINDER ON ①
YFG
PG
CYLINDER EC
CYL VM
NO REG
IC2002 (CYLINDER DRIVE TR.)
R2008 0. 33
R2007 0. 47
IC2002-1, 3, 5 REC/PLAY
2.4 Vp-p (1 msec./div.)
FP2001
MAIN COIL 1
MAIN COIL 2
MAIN COIL 3
DD CYLINDER MOTOR
FG
PG
IC2003-1, 3, 5 REC/PLAY
1.5 Vp-p (20 msec./div.)
CM3
CM2
CM1
C VM
CU1
CU2
CU3
CL1
CL2
CL3
YSC
CFG OUT
CFG IN
H1+
H1-
H2+
H2-
H3+
H3-
DIRECTION LOGIC
DIRECTION DETECTOR
DIRECTION SWITCHING
MATRIX
LIMITER
FG AMP COMP.
SS 3V
CCD SEL
CAPSTAN RSF
CAPSTAN TORQUE
TORQUE LIMIT
CER
FG
CAP VM
IC2003 (CAPSTAN DRIVE TR.)
FP2002
DD CAPSTAN MOTOR
REG 5V
SS 3V
HALL IC1
HALL IC2
HALL IC3

3-8. AUDIO BLOCK DIAGRAM

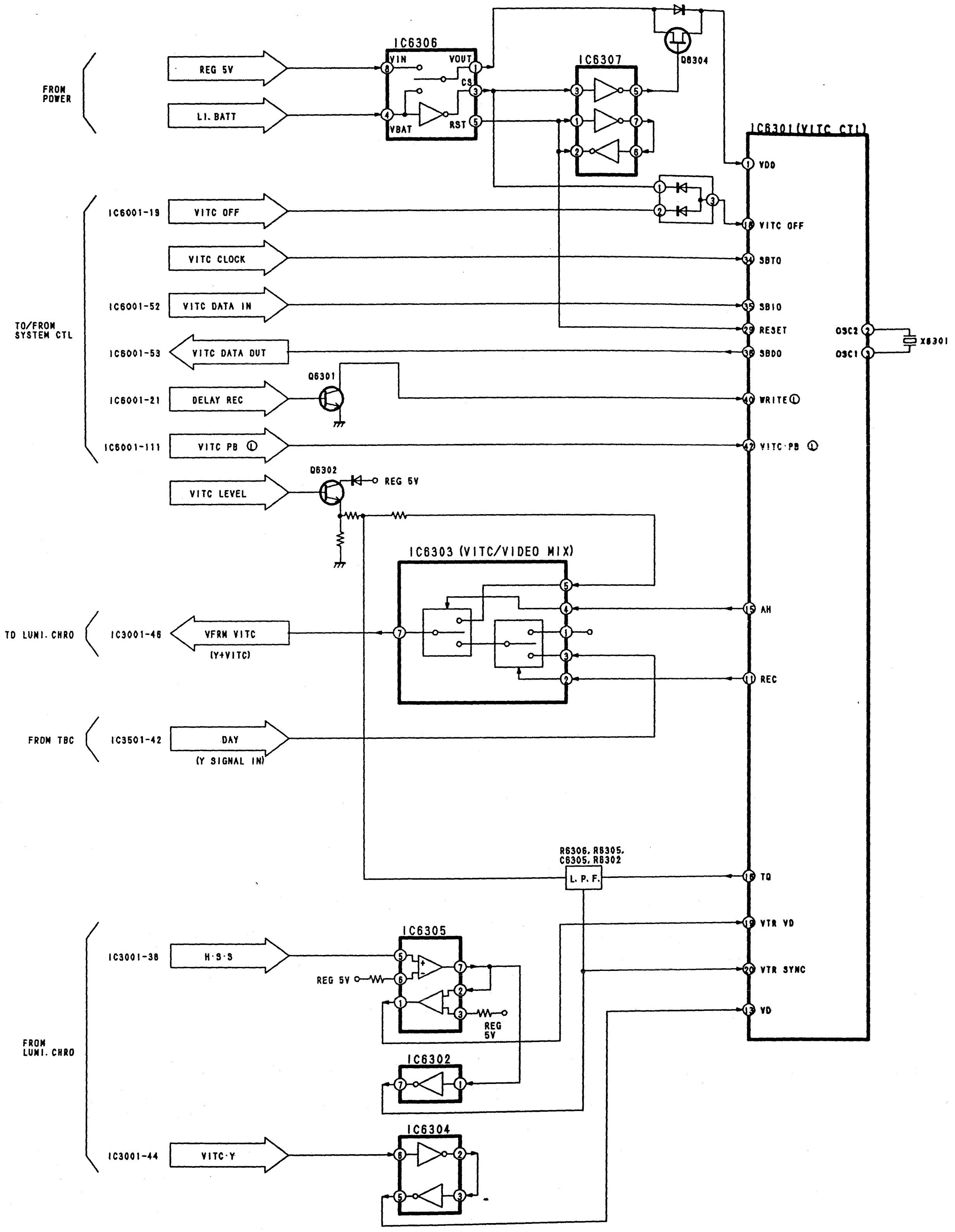

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC4501 (AUDIO SIGNAL PROCESSOR)
MIC IN (R)
RCH
AUDIO LIM
VCO
HOLD
PD
LPF
REC FM
PB IN
FM. TRAP
REC EQ
DC ADJ
REC OUT
BPF
PB FM
LINE OUT (R)
LINE OUT (L)
OUTPUT SW
NR (LCH)
FADE
DET
ALC
MIC IN (L)
FADE CTL
DATA
CLK
CS
LOGIC CONTROL
REC/PLAY SELECT SW
MUTE SW
NORMAL/HI-FI SELECT
FROM SYSTEM CTL
FADE
FM DATA
CLOCK
CHIP SELECT
NORMAL AUDIO HEAD
FP4001 8
FP4001 7
AH (P)
AH (R)
CL4002
CL4003
NOR. PB
NOR. REC
A OUT (R)
A OUT (L)
FROM LUMI. CHRO
VIDEO OUT
MIC UNIT SECTION
AV JACK
JK3601
FP4803 19 FP4002 13
FP4803 16 FP4002 14
FP4803 22 FP4002 10
FP4803 15 FP4002 17
FP4803 16 P4001 16
IC4801
AMP
ECM (R)
ECM (C)
ECM (L)
PS4801 17 PP4802 17
PS4801 15 PP4802 15
PS4801 16 PP4802 16
PS4801 14 PP4802 14
MIC JACK
(JK4851)
LUMI. CHRO SECTION
IC5001 (REC/PLAY HEAD AMP)
REC FM
FROM PROCESS
REC CTL (AUDIO)
CURRENT AMP
RF AMP SW
FROM SYSTEM CTL
A. HEAD CTL
A. H CTL
LOGIC
CL4502
Q4503
AMP
PB FM
H. AMP SW
FP5001 4
FP5001 5
FP5001 9
FP5001 10
FP5001 6
FP5001 7
FP5001 11
FP5001 12
R1 HEAD
R2 HEAD
L1 HEAD
L2 HEAD

Back Page:
SYSTEM CTL & SERVO Section

3-9. EVF BLOCK DIAGRAM

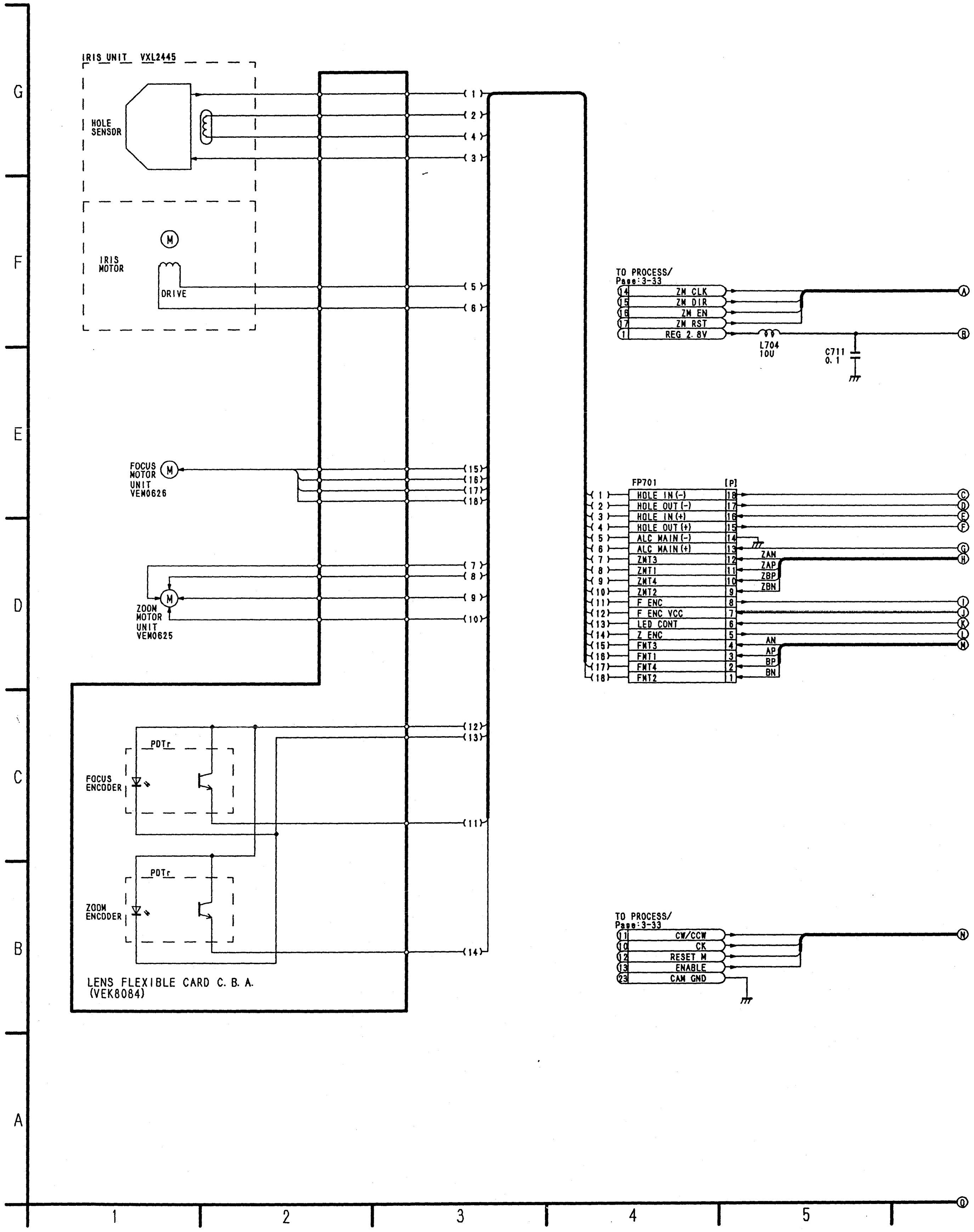

MAIN SIGNAL PATH
EVF (A) C. B. A. SECTION
EVF (B) C. B. A. SECTION
EVF (C) C. B. A. SECTION
IC802 (LCD DRIVE)
NTSC/PAL SW
Y COUNTER
1/2
H COUNTER
DECODER (FOR Y SHIFT REGISTER)
DECODER (FOR X SHIFT REGISTER)
LEVEL SHIFTER
PHASE COMPARATOR
H. SYNC DETECTOR
V. SYNC DETECTOR
BACK LIGHT DRIVE
H CENTER
VR801
OSC
OSCI
PCO
V MODE
H SYNC
DY (SHIFT DATA)
CLY (SHIFT CLOCK)
CLY (SHIFT CLOCK)
DX (SHIFT DATA)
CLX
CLX
SB
VID-R
VID-G
VID-B
VGGX/VGGY
LC CON
COLOUR LCD DISPLAY
VDD
DX
CLX
SB
LEVEL SHIFT CIRCUIT
X SHIFT RESISTER
SIDE BLACK CTL
VID (B)
VID (G)
VID (R)
VIDEO SIGNAL
DY
CLY
VGGX
VGGY
LCCON
LCD PANEL
BUFFER
Y SHIFT RESISTER
TL808
IC803 (VIDEO SIGNAL) LCD DRIVE
H FILTER
SYNC SEP
SW
4.43MHz TRAP
DL
CLAMP
PICTURE CONTROL
AGC
ACC
BPF
COLOUR CONTROL
DEMOD
LPF
MATRIX
INT/EXT SW
γ
BRIGHT
INV
OUT-PUT CTL
PHASE SHIFT
PAL SW
KILLER
APC
VCO
F/F
X801
4.43MHz
VR807 PHASE ADJ
PEDESTAL
R OUT LEVEL
VR805
VR803
SUB BRIGHT R
SUB BRIGHT B
COLOUR
CONTRAST
EXT R
EXT G
EXT B
VR808 COLOUR LEVEL
VR802 CONTRAST
VR804 B OUT LEVEL
TL802
TL803
TL801
FROM DC. JACK
EVF Y
FROM IC8003
NRO
FROM DC. JACK
EVF 5V
IC891 (REG 4V)
NONREG
EVF CTL
SW NOREG (DC IN)
BACK LIGHT 4.0V
BL-P
Q891 (BACK LIGHT DRIVE)
T891
BACK LIGHT
IC801 (DC/DC CONVERTER)
V. REF
PROTECTOR
OSC
U. VLO
PULSE OUTPUT
Q801 POWER OUTPUT
T801
12V
3V
C810, L807
C812, L802
LPF
C803
C806
R814
VR809 12V ADJ.
IC801-4 STOP
0.7Vp-p (10μsec./div.)
COLOUR BAR
TL801 STOP
9Vp-p (50μsec./div.)
COLOUR BAR
TL803 STOP
9Vp-p (50μsec./div.)
COLOUR BAR
TL802 STOP
9Vp-p (50μsec./div.)
COLOUR BAR
IC801-7 STOP
0.5Vp-p (10μsec./div.)
COLOUR BAR
IC803-3 STOP
0.5Vp-p (20μsec./div.)
COLOUR BAR

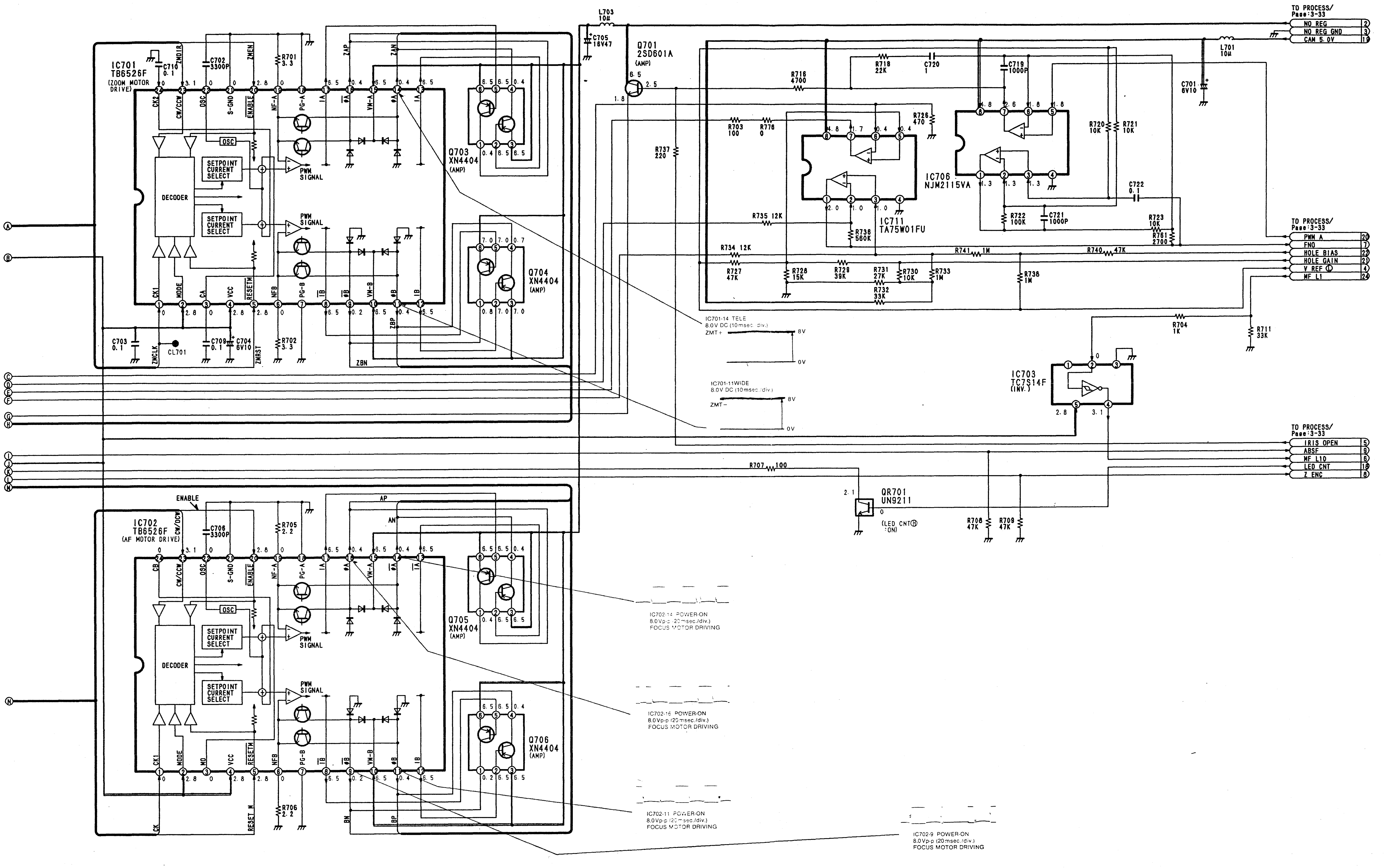
3-10. VITC BLOCK DIAGRAM ; NV-SX50


FROM POWER
REG 5V
LI. BATT
IC6306
VIN
VOUT
CS
VBAT
RST
IC6307
Q6304
IC6301 (VITC CTL)
VDD
TO/FROM SYSTEM CTL
IC6001-19
VITC OFF
VITC CLOCK
SBTO
IC6001-52
VITC DATA IN
SBIO
RESET
IC6001-53
VITC DATA OUT
SBDO
OSC2
OSC1
X6301
Q6301
IC6001-21
DELAY REC
WRITE Ⓛ
IC6001-111
VITC PB Ⓛ
VITC·PB Ⓛ
Q6302
REG 5V
VITC LEVEL
IC6303 (VITC/VIDEO MIX)
AH
TO LUMI. CHRO
IC3001-46
VFRM VITC
(Y+VITC)
REC
FROM TBC
IC3501-42
DAY
(Y SIGNAL IN)
R6306, R6305,
C6305, R6302
L.P.F.
TQ
IC6305
VTR VD
IC3001-38
H·S·S
VTR SYNC
REG 5V
VD
FROM LUMI. CHRO
REG 5V
IC6302
IC6304
IC3001-44
VITC·Y

Back Page:
EVF Section

3-11. LENS DRIVE SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
1
2
3
4
5
IRIS UNIT VXL2445
HOLE SENSOR
IRIS MOTOR
DRIVE
FOCUS MOTOR UNIT VEM0626
ZOOM MOTOR UNIT VEM0625
PDTr
FOCUS ENCODER
PDTr
ZOOM ENCODER
LENS FLEXIBLE CARD C. B. A.
(VEK8084)
TO PROCESS/
Page:3-33
14 ZM CLK
15 ZM DIR
16 ZM EN
17 ZM RST
1 REG 2.8V
L704
10U
C711
0.1
FP701
[P]
1 HOLE IN (-) 18
2 HOLE OUT (-) 17
3 HOLE IN (+) 16
4 HOLE OUT (+) 15
5 ALC MAIN (-) 14
6 ALC MAIN (+) 13
7 ZMT3 12
8 ZMT1 11
9 ZMT4 10
10 ZMT2 9
11 F ENC 8
12 F ENC VCC 7
13 LED CONT 6
14 Z ENC 5
15 FMT3 4
16 FMT1 3
17 FMT4 2
18 FMT2 1
ZAN
ZAP
ZBP
ZBN
AN
AP
BP
BN
TO PROCESS/
Page:3-33
11 CW/CCW
10 CK
12 RESET M
13 ENABLE
23 CAM GND
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

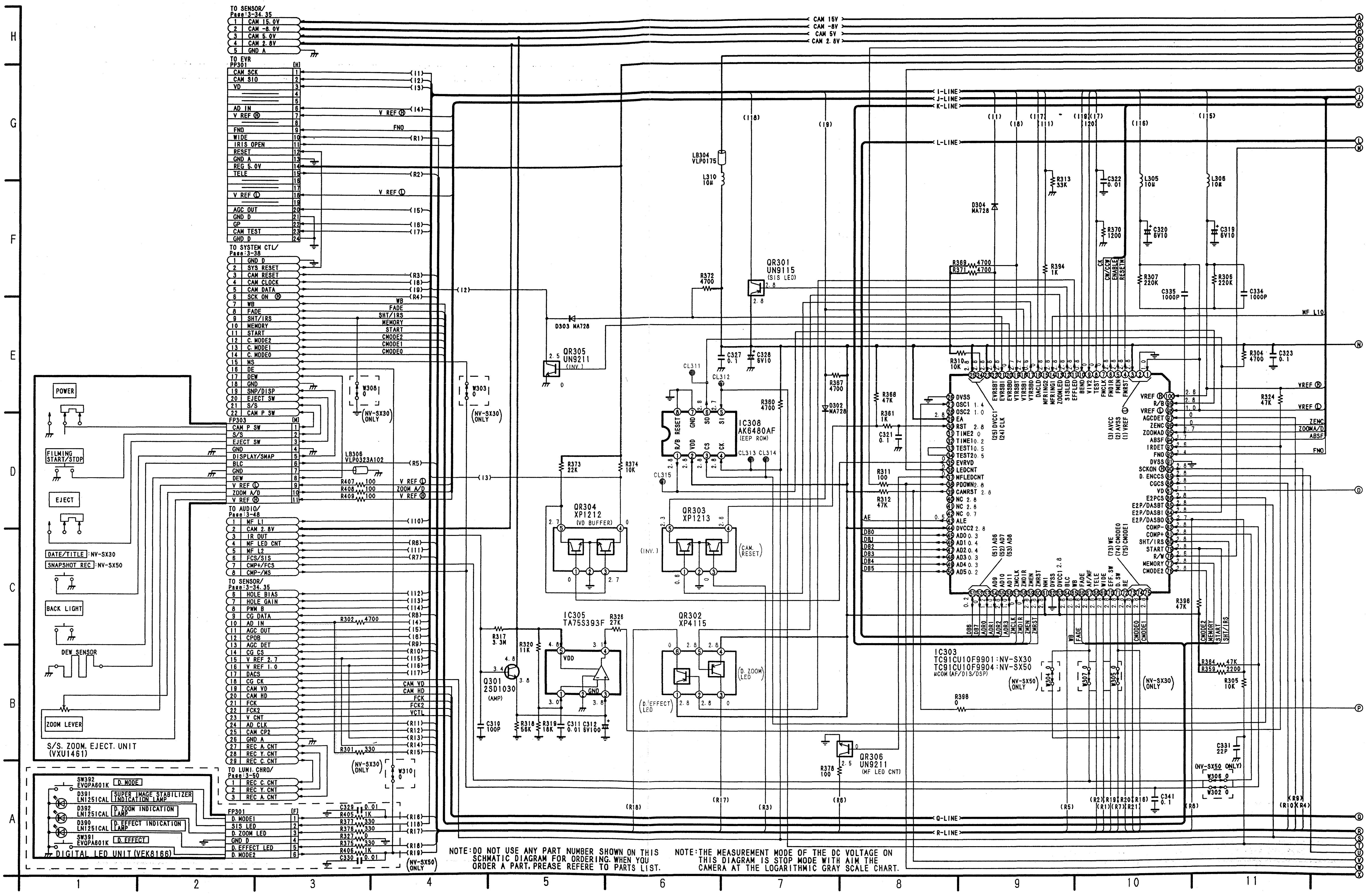

IC701 TB6526F (ZOOM MOTOR DRIVE)
IC702 TB6526F (AF MOTOR DRIVE)
DECODER
SETPOINT CURRENT SELECT
OSC
PWM SIGNAL
Q701 2SD601A (AMP)
Q703 XN4404 (AMP)
Q704 XN4404 (AMP)
Q705 XN4404 (AMP)
Q706 XN4404 (AMP)
IC706 NJM2115VA
IC711 TA75W01FU
IC703 TC7S14F (INV.)
QR701 UN9211 (LED CNT① ON)
L703 10μ
L701 10μ
CL701
TO PROCESS/ Page:3-33
NO REG
NO REG GND
CAM 5.0V
PWM A
FNO
HOLE BIAS
HOLE GAIN
V REF ①
MF L1
IRIS OPEN
ABSF
MF L10
LED CNT
Z ENC
ZMCLK
ZMRST
ZBN
ZBP
ZAP
ZAN
ZMDIR
ZMEN
ENABLE
AP
AN
BN
BP
CK
RESET M
IC701-14 TELE 8.0V DC (10msec./div.) ZMT+ 8V 0V
IC701-11WIDE 8.0V DC (10msec./div.) ZMT− 8V 0V
IC702-14 POWER-ON 8.0Vp-p (20msec./div.) FOCUS MOTOR DRIVING
IC702-16 POWER-ON 8.0Vp-p (20msec./div.) FOCUS MOTOR DRIVING
IC702-11 POWER-ON 8.0Vp-p (20msec./div.) FOCUS MOTOR DRIVING
IC702-9 POWER-ON 8.0Vp-p (20msec./div.) FOCUS MOTOR DRIVING

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.

6 7 8 9 10 11 12 13 14 15 16

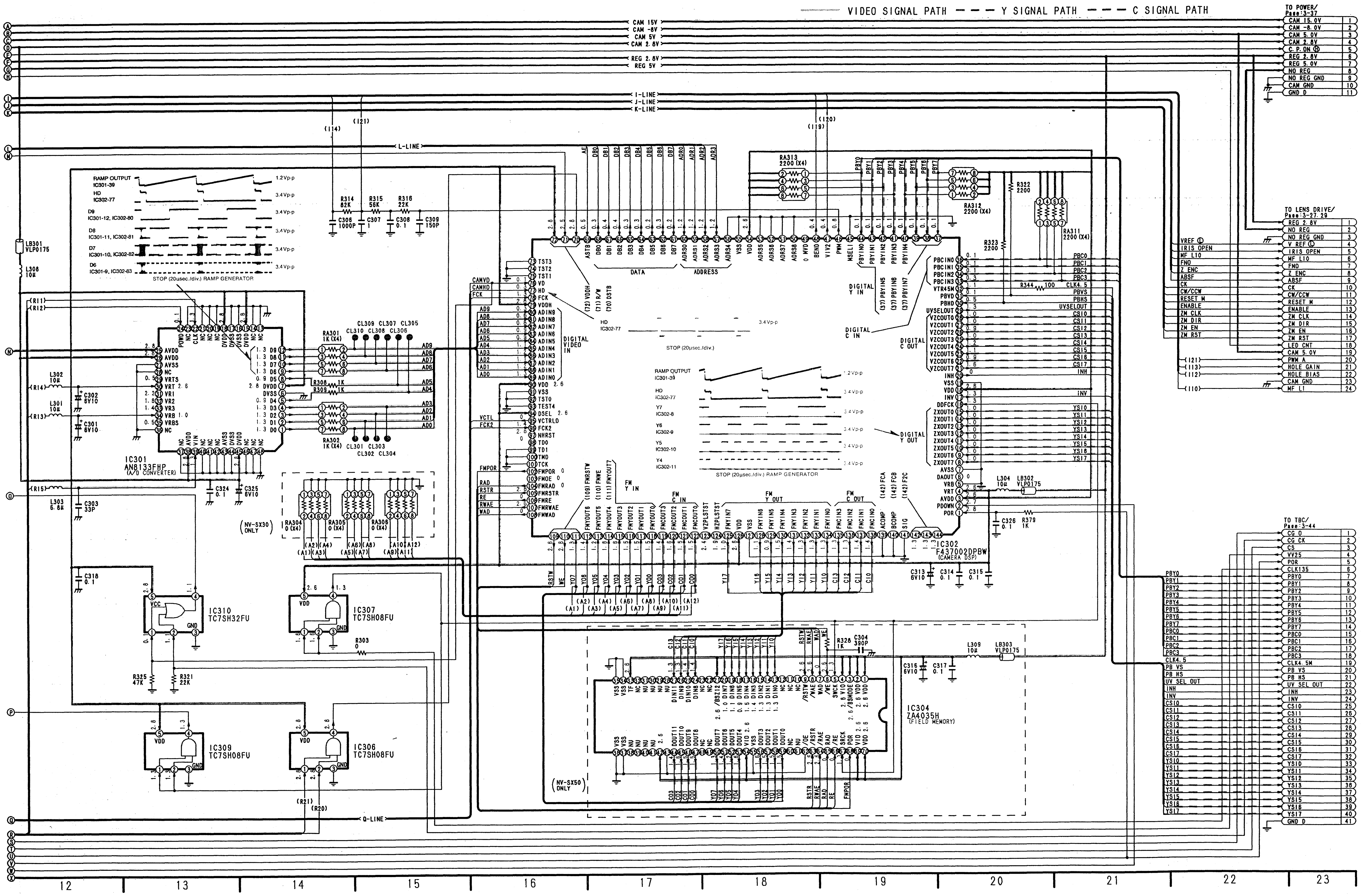
3-12. PROCESS SCHEMATIC DIAGRAM


TO SENSOR/ Page:3-34,35
CAM 15.0V
CAM -8.0V
CAM 5.0V
CAM 2.8V
GND A
TO EVR PP301
CAM SCK
CAM SIO
VD
AD IN
V REF Ⓡ
FNO
WIDE
IRIS OPEN
RESET
GND A
REG 5.0V
TELE
V REF Ⓛ
AGC OUT
GND D
GP
CAM TEST
GND D
TO SYSTEM CTL/ Page:3-38
GND D
SYS RESET
CAM RESET
CAM CLOCK
CAM DATA
SCK ON
WB
FADE
SHT/IRS
MEMORY
START
C.MODE2
C.MODE1
C.MODE0
MS
DE
DEW
GND
SNP/DISP
EJECT SW
S/S
CAM P SW
FP303
TO AUDIO/ Page:3-48
MF L1
CAM 2.8V
IR OUT
MF LED CNT
MF L2
FCS/SIS
CMP+/FCS
CMP-/MS
TO SENSOR/ Page:3-34,35
HOLE BIAS
HOLE GAIN
PWM B
CG DATA
AD IN
AGC OUT
CPOB
AGC DET
CG CS
V REF 2.7
V REF 1.0
DACS
CG CK
CAM VD
CAM HD
FCK
FCK2
V CNT
AD CLK
CAM CP2
GND A
REC A CNT
REC Y CNT
REC C CNT
TO LUMI.CHRO/ Page:3-50
FP301
D.MODE1
SIS LED
D.ZOOM LED
GND D
D.EFFECT LED
D.MODE2
POWER
FILMING START/STOP
EJECT
DATE/TITLE NV-SX30
SNAPSHOT REC NV-SX50
BACK LIGHT
DEW SENSOR
ZOOM LEVER
S/S, ZOOM, EJECT UNIT (VXU1461)
SW392 EVQPA601K D.MODE
D391 LN1251CAL SUPER IMAGE STABILIZER INDICATION LAMP
D392 LN1251CAL D.ZOOM INDICATION LAMP
D390 LN1251CAL D.EFFECT INDICATION LAMP
SW391 EVQPA601K D.EFFECT
DIGITAL LED UNIT (VEK8166)
LB306 VLP0323A102
W308 (NV-SX30) ONLY
W303 (NV-SX30) ONLY
W310 (NV-SX50) ONLY
CAM 15V
CAM -8V
CAM 5V
CAM 2.8V
I-LINE
J-LINE
K-LINE
L-LINE
Q-LINE
R-LINE
LB304 VLP0175
L310 10µ
D303 MA728
QR305 UN9211 (INV.)
QR301 UN9115 (SIS LED)
R372 4700
IC308 AK6480AF (EEP ROM)
QR304 XP1212 (VD BUFFER)
QR303 XP1213 (CAM. RESET)
IC305 TA75S393F
QR302 XP4115 (D.ZOOM LED) (D.EFFECT LED)
Q301 2SD1030 (AMP)
QR306 UN9211 (MF LED CNT)
D304 MA728
D302 MA728
IC303 TC91CU10F9901:NV-SX30 TC91CU10F9904:NV-SX50 µCOM (AF/DIS/DSP)
L305 10µ
L306 10µ
C320 6V10
C319 6V10
R307 220K
R306 220K
C335 1000P
C334 1000P
MF L10
VREF Ⓡ
VREF Ⓛ
ZENC
ZOOMA/D
ABSF
FNO
W304 (NV-SX50) ONLY
W307
W305 (NV-SX30) ONLY
W306 (NV-SX50 ONLY)
W302
R364 47K
R359 2200
R305 10K
R398 0
C331 22P
C341 0.1

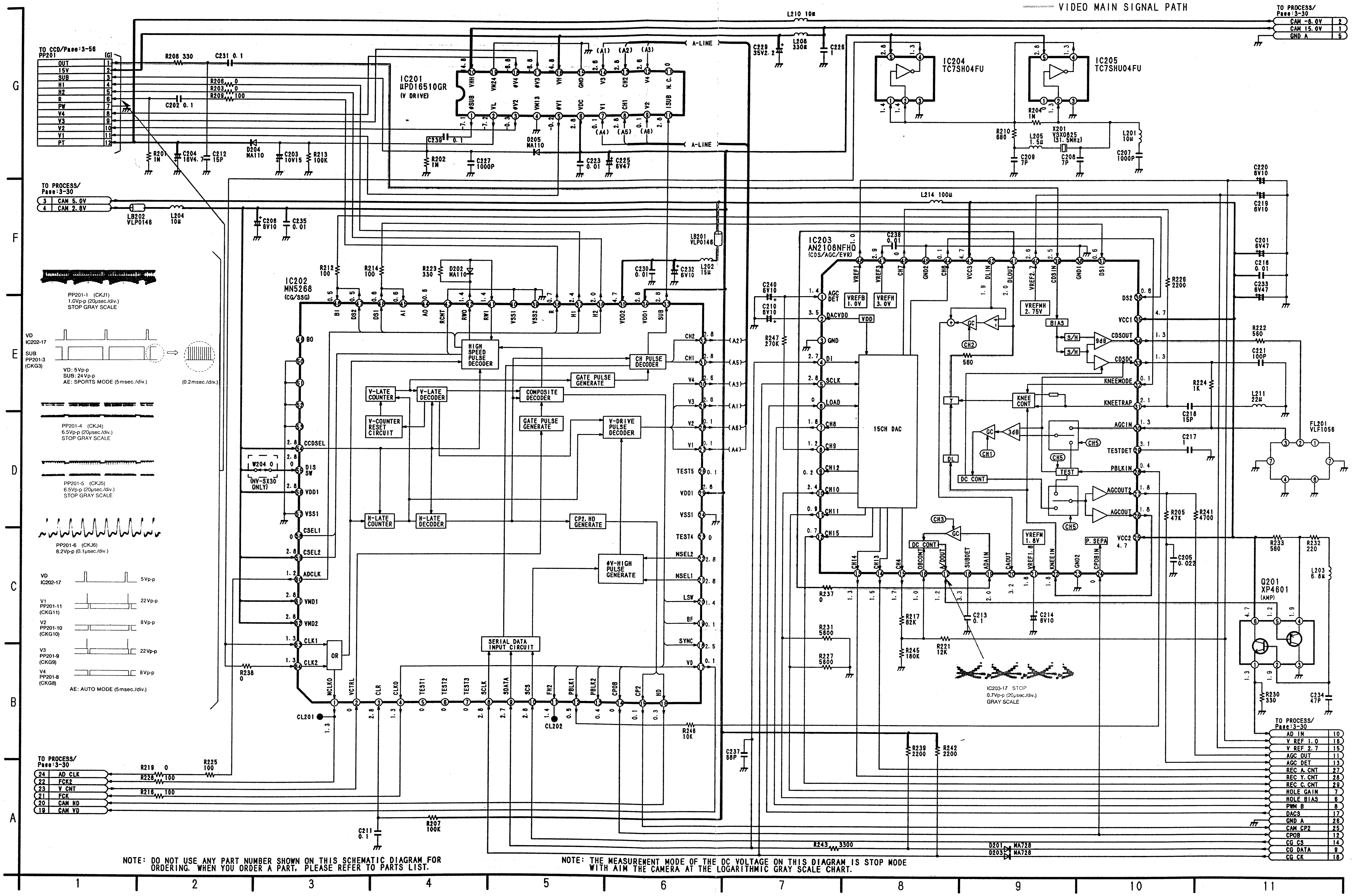
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PREASE REFERE TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.

Back Page:
LENS DRIVE Section


VIDEO SIGNAL PATH
Y SIGNAL PATH
C SIGNAL PATH
TO POWER/ Page:3-37
1 CAM 15.0V
2 CAM -8.0V
3 CAM 5.0V
4 CAM 2.8V
5 C.P.ON (H)
6 REG 2.8V
7 REG 5.0V
8 NO REG
9 NO REG GND
10 CAM GND
11 GND D
CAM 15V
CAM -8V
CAM 5V
CAM 2.8V
REG 2.8V
REG 5V
I-LINE
J-LINE
K-LINE
L-LINE
Q-LINE
TO LENS DRIVE/ Page:3-27,29
1 REG 2.8V
2 NO REG
3 NO REG GND
4 V REF (L)
5 IRIS OPEN
6 MF L10
7 FNO
8 Z ENC
9 ABSF
10 CK
11 CW/CCW
12 RESET M
13 ENABLE
14 ZM CLK
15 ZM DIR
16 ZM EN
17 ZM RST
18 LED CNT
19 CAM 5.0V
20 PWM A
21 HOLE GAIN
22 HOLE BIAS
23 CAM GND
24 MF L1
TO TBC/ Page:3-44
1 CG D
2 CG CK
3 CS
4 VV25
5 POR
6 CLK135
7 PBY0
8 PBY1
9 PBY2
10 PBY3
11 PBY4
12 PBY5
13 PBY6
14 PBY7
15 PBC0
16 PBC1
17 PBC2
18 PBC3
19 CLK4.5M
20 PB VS
21 PB HS
22 UV SEL OUT
23 INH
24 INV
25 CS10
26 CS11
27 CS12
28 CS13
29 CS14
30 CS15
31 CS16
32 CS17
33 YS10
34 YS11
35 YS12
36 YS13
37 YS14
38 YS15
39 YS16
40 YS17
41 GND D
RAMP OUTPUT IC301-39 1.2Vp-p
HD IC302-77 3.4Vp-p
D9 IC301-12, IC302-80 3.4Vp-p
D8 IC301-11, IC302-81 3.4Vp-p
D7 IC301-10, IC302-82 3.4Vp-p
D6 IC301-9, IC302-83 3.4Vp-p
STOP (20μsec./div.) RAMP GENERATOR
IC301 AN8133FHP (A/D CONVERTER)
IC302 F4370O2DPBW (CAMERA DSP)
DATA
ADDRESS
DIGITAL VIDEO IN
DIGITAL Y IN
DIGITAL C IN
DIGITAL C OUT
DIGITAL Y OUT
FM Y IN
FM C IN
FM Y OUT
FM C OUT
HD IC302-77 3.4Vp-p
STOP (20μsec./div.)
RAMP OUTPUT IC301-39 1.2Vp-p
HD IC302-77 3.4Vp-p
Y7 IC302-8 3.4Vp-p
Y6 IC302-9 3.4Vp-p
Y5 IC302-10 3.4Vp-p
Y4 IC302-11 3.4Vp-p
STOP (20μsec./div.) RAMP GENERATOR
IC304 ZA4035H (FIELD MEMORY)
(NV-SX50) ONLY
(NV-SX30) ONLY
IC306 TC7SH08FU
IC307 TC7SH08FU
IC309 TC7SH08FU
IC310 TC7SH32FU
LB301 VLP0175
L308 10μ
L302 10μ
L301 10μ
L303 6.8μ
L304 10μ
LB302 VLP0175
L309 10μ
LB303 VLP0175
RA301 1K (X4)
RA302 1K (X4)
RA304 0 (X4)
RA305 0 (X4)
RA306 0 (X4)
RA311 2200 (X4)
RA312 2200 (X4)
RA313 2200 (X4)
R314 82K
R315 56K
R316 22K
R321 22K
R322 2200
R323 2200
R325 47K
R326 1K
R344 100
R379 1K
R303 0
C306 1000P
C307 1
C308 0.1
C309 150P
C301 6V10
C302 6V10
C303 33P
C318 0.1
C324 0.1
C325 6V10
C313 6V10
C314 0.1
C315 0.1
C316 6V10
C317 0.1
C326 0.1
C304 390P
12
13
14
15
16
17
18
19
20
21
22
23

3-13. SENSOR SCHEMATIC DIAGRAM

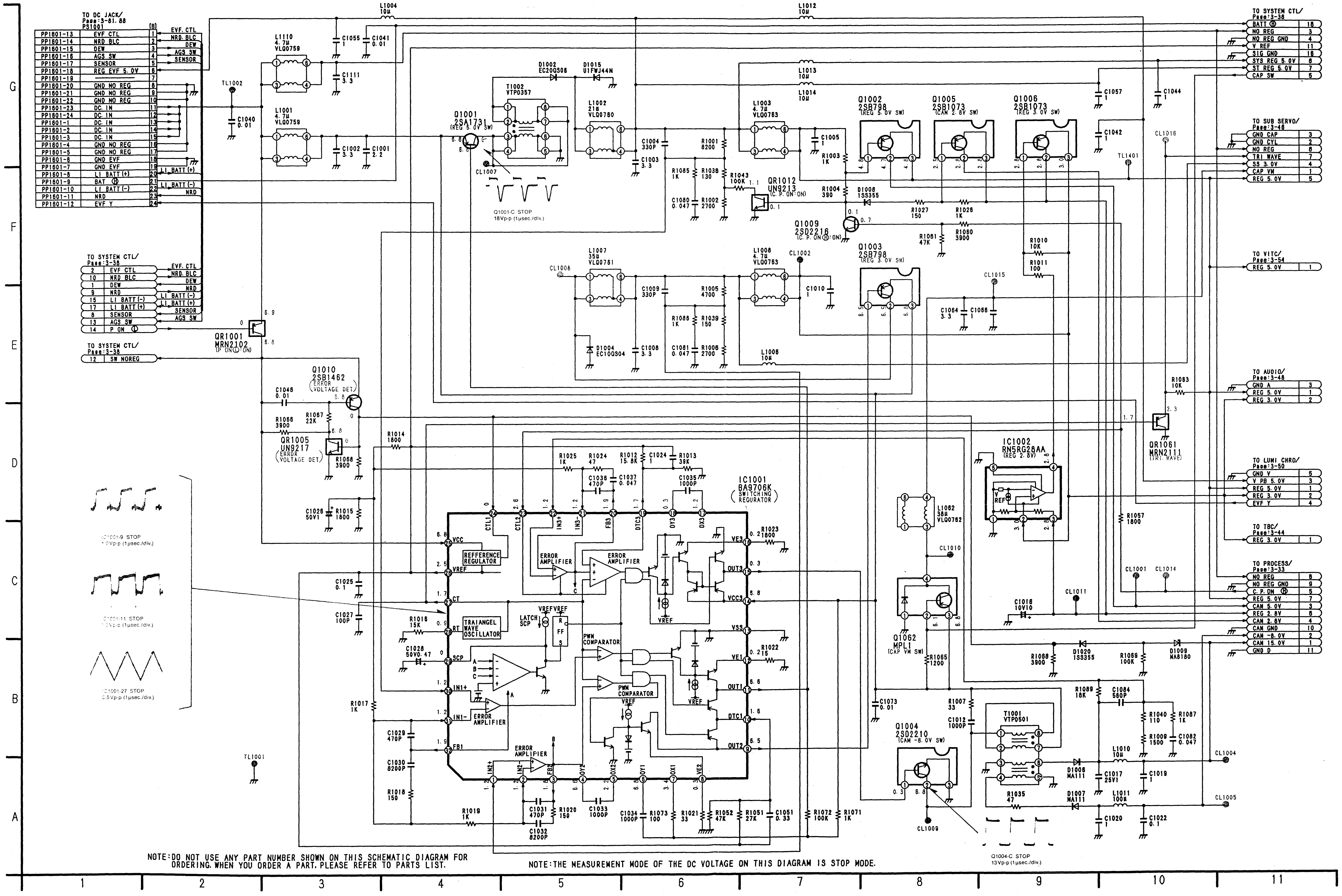

VIDEO MAIN SIGNAL PATH
TO CCD/Page:3-56
PP201
1 OUT
2 15V
3 SUB
4 H1
5 H2
6 R
7 PW
8 V4
9 V3
10 V2
11 V1
12 PT
TO PROCESS/
Page:3-30
3 CAM 5.0V
4 CAM 2.8V
TO PROCESS/
Page:3-30
CAM -8.0V 2
CAM 15.0V 1
GND A 5
IC201
µPD16510GR
(V DRIVE)
IC202
MN5268
(CG/SSG)
IC203
AN2108NFHQ
(CDS/AGC/EVR)
IC204
TC7SH04FU
IC205
TC7SHU04FU
Q201
XP4601
(AMP)
FL201
VLF1056
X201
VSX0825
(31.5MHz)
A-LINE
HIGH SPEED PULSE DECODER
CH PULSE DECODER
GATE PULSE GENERATE
V-LATE COUNTER
V-LATE DECODER
COMPOSITE DECODER
V-COUNTER RESET CIRCUIT
V-DRIVE PULSE DECODER
H-LATE COUNTER
H-LATE DECODER
CP2, HD GENERATE
ØV-HIGH PULSE GENERATE
SERIAL DATA INPUT CIRCUIT
OR
W204
(NV-SX30 ONLY)
15CH DAC
VREFB 1.0V
VREF 3.0V
VREFH 2.75V
VREFM 1.8V
BIAS
P. SEPA
DC CONT
TEST
KNEE CONT
TO PROCESS/
Page:3-30
24 AD CLK
22 FCK2
23 V CNT
21 FCK
20 CAM HD
19 CAM VD
TO PROCESS/
Page:3-30
AD IN 10
V REF 1.0 16
V REF 2.7 15
AGC OUT 11
AGC DET 13
REC A. CNT 27
REC Y. CNT 28
REC C. CNT 29
HOLE GAIN 7
HOLE BIAS 6
PWM B 8
DACS 17
GND A 26
CAM CP2 25
CPOB 12
CG CS 14
CG DATA 9
CG CK 18
PP201-1 (CKJ1)
1.0Vp-p (20µsec./div.)
STOP GRAY SCALE
VD IC202-17
SUB PP201-3 (CKG3)
VD: 5Vp-p
SUB: 24Vp-p
AE: SPORTS MODE (5msec./div.)
(0.2msec./div.)
PP201-4 (CKJ4)
6.5Vp-p (20µsec./div.)
STOP GRAY SCALE
PP201-5 (CKJ5)
6.5Vp-p (20µsec./div.)
STOP GRAY SCALE
PP201-6 (CKJ6)
8.2Vp-p (0.1µsec./div.)
VD IC202-17 5Vp-p
V1 PP201-11 (CKG11) 22Vp-p
V2 PP201-10 (CKG10) 8Vp-p
V3 PP201-9 (CKG9) 22Vp-p
V4 PP201-8 (CKG8) 8Vp-p
AE: AUTO MODE (5msec./div.)
IC203-17 STOP
0.7Vp-p (20µsec./div.)
GRAY SCALE
CL201
CL202
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.

Back Page:
PROCESS Section

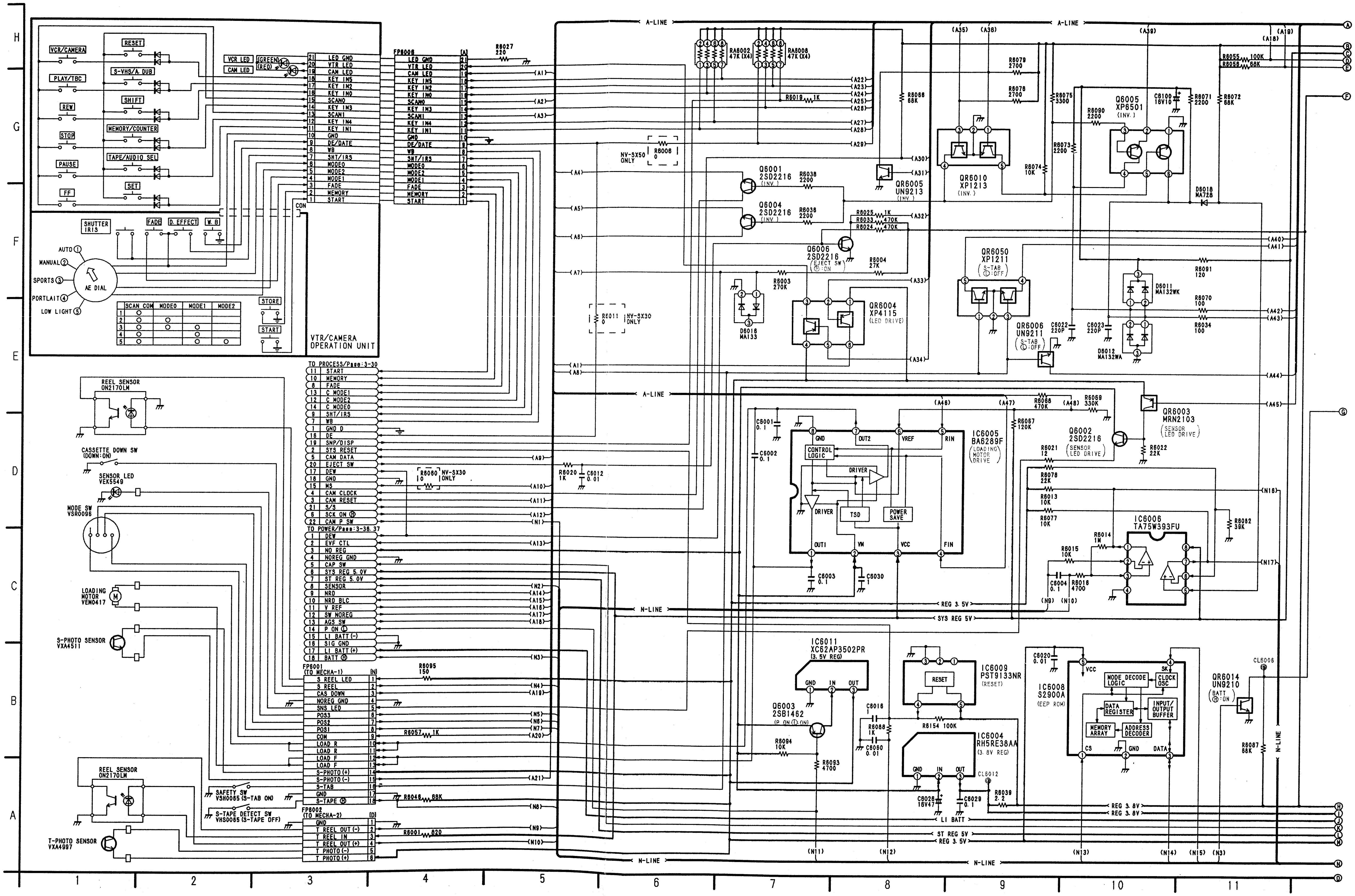
3-14. POWER SCHEMATIC DIAGRAM

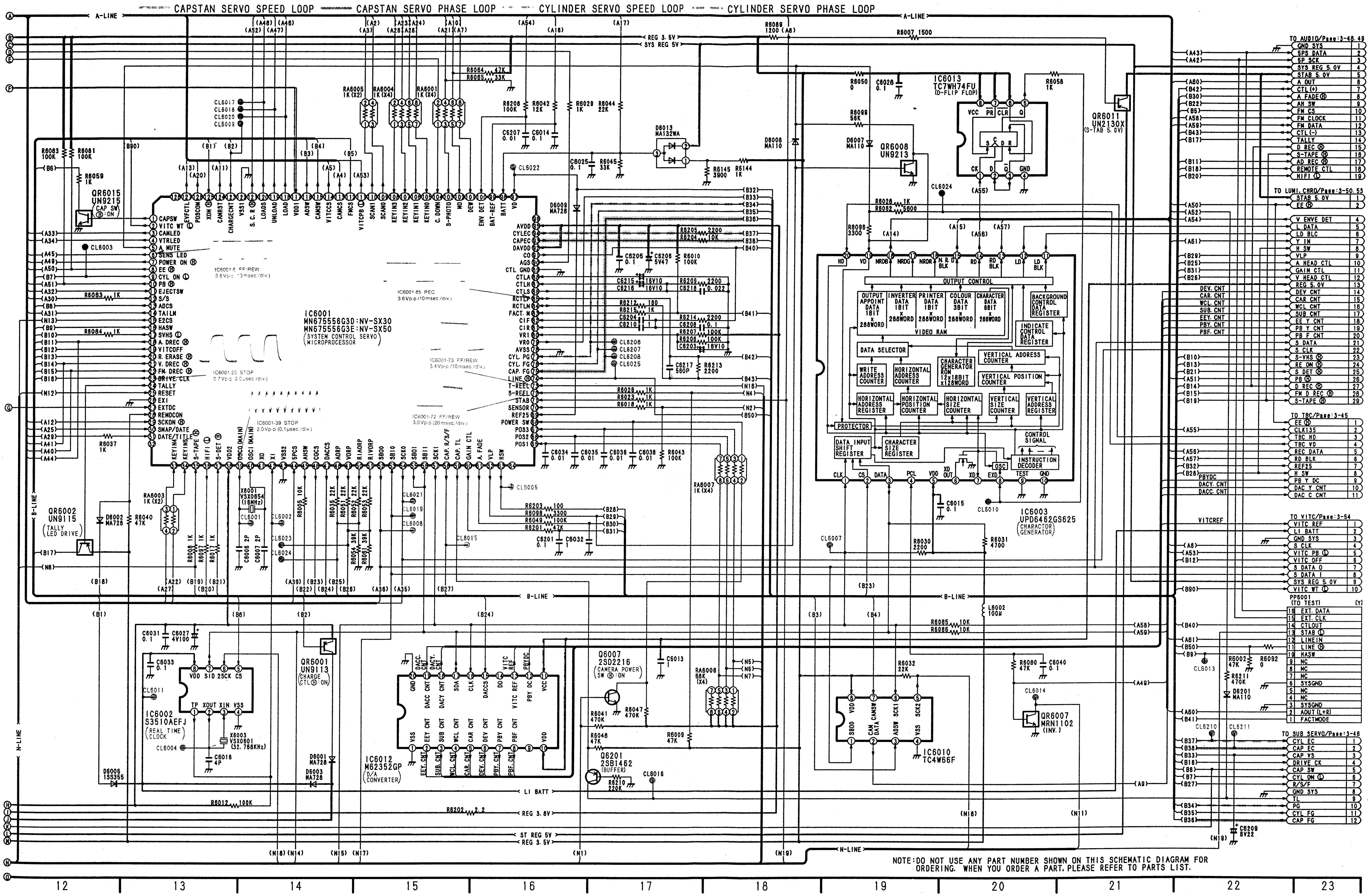

TO DC JACK/ Page:3-81, 88 PS1001
PP1601-13 EVF CTL
PP1601-14 NRD BLC
PP1601-15 DEW
PP1601-16 AGS SW
PP1601-17 SENSOR
PP1601-18 REG EVF 5.0V
PP1601-19
PP1601-20 GND NO REG
PP1601-21 GND NO REG
PP1601-22 GND NO REG
PP1601-23 DC IN
PP1601-24 DC IN
PP1601-1 DC IN
PP1601-2 DC IN
PP1601-3 DC IN
PP1601-4 GND NO REG
PP1601-5 GND NO REG
PP1601-6 GND EVF
PP1601-7 GND EVF
PP1601-8 LI BATT (+)
PP1601-9 BAT
PP1601-10 LI BATT (-)
PP1601-11 NRD
PP1601-12 EVF Y
TO SYSTEM CTL/ Page:3-38
2 EVF CTL
10 NRD BLC
1 DEW
9 NRD
15 LI BATT (-)
17 LI BATT (+)
8 SENSOR
13 AGS SW
14 P ON
TO SYSTEM CTL/ Page:3-38
12 SW NOREG
TL1002
C1040 0.01
L1110 4.7μ VLQ0759
L1001 4.7μ VLQ0759
L1004 10μ
C1055 1
C1041 0.01
C1111 3.3
C1002 3.3
C1001 2.2
D1002 EC20QS06
D1015 U1FWJ44N
T1002 VTP0357
Q1001 2SA1731 (REG 5.0V SW)
CL1007
Q1001-C STOP 18Vp-p (1μsec./div.)
L1002 21μ VLQ0760
C1004 330P
C1003 3.3
R1001 8200
R1085 1K
R1038 130
R1043 100K
C1080 0.047
R1002 2700
QR1012 UN9213 (C.P. ON:ON)
L1012 10μ
L1013 10μ
L1014 10μ
L1003 4.7μ VLQ0763
C1005 1
R1003 1K
R1004 390
D1008 1SS355
Q1009 2SD2216 (C.P. ON:ON)
Q1002 2SB798 (REG 5.0V SW)
Q1005 2SB1073 (CAM 2.8V SW)
Q1006 2SB1073 (REG 3.0V SW)
R1027 150
R1026 1K
R1081 47K
R1080 3900
C1057 1
C1044 1
C1042 1
CL1016
TL1401
TO SYSTEM CTL/ Page:3-38
BATT 18
NO REG 3
NO REG GND 4
V REF 11
SIG GND 16
SYS REG 5.0V 6
ST REG 5.0V 7
CAP SW 5
TO SUB SERVO/ Page:3-48
GND CAP 3
GND CYL 2
NO REG 6
TRI WAVE 7
SS 3.0V 4
CAP VM 1
REG 5.0V 5
CL1008
L1007 35μ VLQ0761
C1009 330P
R1005 4700
R1086 1K
R1039 150
D1004 EC10QS04
C1008 3.3
C1081 0.047
R1006 2700
L1008 4.7μ VLQ0763
CL1002
C1010 1
L1006 10μ
Q1003 2SB798 (REG 3.0V SW)
C1064 3.3
C1066 1
CL1015
R1010 10K
R1011 100
TO VITC/ Page:3-54
REG 5.0V 1
QR1001 MRN2102 (P.ON:ON)
Q1010 2SB1462 (ERROR VOLTAGE DET)
C1046 0.01
R1066 3900
R1067 22K
QR1005 UN9217 (ERROR VOLTAGE DET)
R1068 3900
R1014 1800
C1026 50V1
R1015 1800
R1025 1K
R1024 47
R1012 15.8K
C1024 1
R1013 39K
C1036 470P
C1037 0.047
C1035 1000P
IC1001 BA9706K (SWITCHING REGURATOR)
CTL1 CTL2 IN3+ IN3- FB3 DTC3 OY3 OX3
VCC
REFFERENCE REGULATOR
VREF
CT
ERROR AMPLIFIER
ERROR AMPLIFIER
VE3
OUT3
VCC3
TRAIANGEL WAVE OSCILLATOR
RT
SCP
LATCH SCP
VREF VREF
FF
PWM COMPARATOR
PWM COMPARATOR
VSS
VE1
OUT1
DTC1
OUT2
IN1+
IN1-
ERROR AMPLIFIER
FB1
ERROR AMPLIFIER
IN2+ IN2- FB2 OY2 OX2 OY1 OX1 VE2
R1023 1800
R1022 2.15
C1025 0.1
C1027 100P
R1016 15K
C1028 50V0.47
R1017 1K
C1029 470P
C1030 8200P
R1018 150
R1019 1K
C1031 470P
R1020 150
C1032 8200P
C1033 1000P
C1034 1000P
R1073 100
R1021 33
R1052 47K
R1051 27K
C1051 0.33
R1072 100K
R1071 1K
IC1001-9 STOP 10Vp-p (1μsec./div.)
IC1001-11 STOP 10Vp-p (1μsec./div.)
IC1001-27 STOP 2.5Vp-p (1μsec./div.)
TL1001
L1062 35μ VLQ0762
CL1010
Q1062 MPL1 (CAP VM SW)
R1065 1200
C1073 0.01
R1007 33
C1012 1000P
Q1004 2SD2210 (CAM -8.0V SW)
CL1009
Q1004-C STOP 13Vp-p (1μsec./div.)
T1001 VTP0501
R1035 47
D1006 MA111
D1007 MA111
C1017 25V1
L1011 100μ
L1010 10μ
C1019 1
C1020 1
C1022 0.1
R1089 18K
C1084 560P
R1040 110
R1087 1K
R1009 1500
C1082 0.047
CL1004
CL1005
IC1002 RN5RG28AA (REG 2.8V)
V REF
R1057 1800
R1083 10K
QR1061 MRN2111 (TRI.WAVE)
CL1011
C1018 10V10
CL1001
CL1014
R1088 3900
D1020 1SS355
R1069 100K
D1009 MA8180
TO AUDIO/ Page:3-48
GND A 3
REG 5.0V 1
REG 3.0V 2
TO LUMI CHRO/ Page:3-50
GND V 5
V PB 5.0V 3
REG 5.0V 1
REG 3.0V 2
EVF Y 4
TO TBC/ Page:3-44
REG 3.0V 1
TO PROCESS/ Page:3-33
NO REG 8
NO REG GND 9
C.P.ON 5
REG 5.0V 7
CAM 5.0V 3
REG 2.8V 6
CAM 2.8V 4
CAM GND 10
CAM -8.0V 2
CAM 15.0V 1
GND D 11
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

3-15. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM


VTR/CAMERA
OPERATION UNIT
VCR/CAMERA
PLAY/TBC
REW
STOP
PAUSE
FF
RESET
S-VHS/A DUB
SHIFT
MEMORY/COUNTER
TAPE/AUDIO SEL
SET
VCR LED
CAM LED
SHUTTER IRIS
FADE
D. EFFECT
W. B
AE DIAL
AUTO
MANUAL
SPORTS
PORTLAIT
LOW LIGHT
STORE
START
FP6006
TO PROCESS/Page 3-30
TO POWER/Page 3-36, 37
FP6001 (TO MECHA-1)
FP6002 (TO MECHA-2)
REEL SENSOR ON2170LM
CASSETTE DOWN SW (DOWN-ON)
SENSOR LED VEK5549
MODE SW VSR0096
LOADING MOTOR VEM0417
S-PHOTO SENSOR VXA4511
SAFETY SW VSH0085 (S-TAB ON)
S-TAPE DETECT SW VHS0085 (S-TAPE OFF)
T-PHOTO SENSOR VXA4997
A-LINE
N-LINE
RA6002 47K (X4)
RA6008 47K (X4)
Q6001 2SD2216 (INV.)
Q6004 2SD2216 (INV.)
Q6006 2SD2216 (EJECT SW) (ON)
QR6005 UN9213 (INV.)
QR6004 XP4115 (LED DRIVE)
D6016 MA133
QR6010 XP1213 (INV.)
Q6005 XP6501 (INV.)
D6018 MA728
QR6050 XP1211 (S-TAB) (OFF)
QR6006 UN9211 (S-TAB) (OFF)
D6011 MA132WK
D6012 MA132WA
QR6003 MRN2103 (SENSOR LED DRIVE)
Q6002 2SD2216 (SENSOR LED DRIVE)
IC6005 BA6289F (LOADING MOTOR DRIVE)
CONTROL LOGIC
DRIVER
TSD
POWER SAVE
IC6006 TA75W393FU
REG 3. 5V
SYS REG 5V
IC6011 XC62AP3502PR (3. 5V REG)
Q6003 2SB1462 (P ON ON)
IC6009 PST9133NR (RESET)
IC6004 RH5RE38AA (3. 8V REG)
IC6008 S2900A (EEP ROM)
MODE DECODE LOGIC
CLOCK OSC
DATA REGISTER
INPUT/OUTPUT BUFFER
MEMORY ARRAY
ADDRESS DECODER
QR6014 UN9210 (BATT ON)
CL6006
LI BATT
ST REG 5V
REG 3. 8V
NV-SX50 ONLY
NV-SX30 ONLY


CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
A-LINE
B-LINE
N-LINE
REG 3.5V
SYS REG 5V
IC6001
MN675556G3D:NV-SX30
MN675556G3E:NV-SX50
(SYSTEM CONTROL SERVO MICROPROCESSOR)
IC6002
S3510AEFJ
(REAL TIME CLOCK)
X6003
VSX0801
(32.768KHz)
X6001
VSX0854
(16MHz)
IC6003
UPD6462GS625
(CHARACTOR GENERATOR)
IC6010
TC4W66F
IC6012
M62352GP
(D/A CONVERTER)
IC6013
TC7WH74FU
(D-FLIP FLOP)
QR6001
UN9113
(CHARGE CTL Ⓗ:ON)
QR6002
UN9115
(TALLY LED DRIVE)
QR6007
MRN1102
(INV.)
QR6008
UN9213
QR6011
UN2130X
(S-TAB 5.0V)
QR6015
UN9215
(CAP SW Ⓗ:ON)
Q6007
2SD2216
(CAMERA POWER SW Ⓗ:ON)
Q6201
2SB1462
(BUFFER)
D6013
MA132WA
IC6001-6 FF/REW 3.6Vp-p (3msec./div.)
IC6001-85 REC 3.6Vp-p (10msec./div.)
IC6001-23 STOP 0.7Vp-p (2.0μsec./div.)
IC6001-73 FF/REW 3.4Vp-p (10msec./div.)
IC6001-39 STOP 2.0Vp-p (0.1μsec./div.)
IC6001-72 FF/REW 3.0Vp-p (20msec./div.)
OUTPUT CONTROL
OUTPUT APPOINT DATA 1BIT x 288WORD
INVERTER DATA 1BIT x 288WORD
PRINTER DATA 1BIT x 288WORD
COLOUR DATA 3BIT x 288WORD
CHARACTER DATA 8BIT x 288WORD
VIDEO RAM
BACKGROUND CONTROL DATA REGISTER
INDICATE CONTROL DATA REGISTER
DATA SELECTOR
WRITE ADDRESS COUNTER
HORIZONTAL ADDRESS COUNTER
CHARACTER GENERATOR ROM 12x18BIT x128WORD
VERTICAL ADDRESS COUNTER
VERTICAL POSITION COUNTER
HORIZONTAL ADDRESS REGISTER
HORIZONTAL POSITION COUNTER
HORIZONTAL SIZE COUNTER
VERTICAL SIZE COUNTER
VERTICAL ADDRESS REGISTER
PROTECTOR
DATA INPUT SHIFT REGISTER
CHARACTER SIZE REGISTER
CONTROL SIGNAL
INSTRUCTION DECODER
OSC
TO AUDIO/Page:3-48,49
GND SYS 1
SPS DATA 2
SP SCK 3
SYS REG 5.0V 4
STAB 5.0V 5
A OUT 6
CTL (+) 7
A FADE Ⓗ 8
AH SW 9
FM CS 10
FM CLOCK 11
FM DATA 12
CTL (-) 13
TALLY 14
D REC Ⓗ 15
S-TAPE Ⓗ 16
AD REC Ⓗ 17
REMOTE CTL 18
HIFI Ⓛ 19
TO LUMI. CHRO/Page:3-50,53
STAB 5.0V 1
EE Ⓗ 2
V ENVE DET 4
L DATA 5
LD BLC 6
Y IN 7
H SW 8
VLP 9
A HEAD CTL 10
GAIN CTL 11
V HEAD CTL 12
REG 5.0V 13
DEV CNT 14
CAR CNT 15
WCL CNT 16
SUB CNT 17
EE Y CNT 18
PB Y CNT 19
PB F CNT 20
S DATA 21
S CLK 22
S-VHS Ⓗ 23
RE ON Ⓗ 24
S BC Ⓗ 25
PB Ⓗ 26
D REC Ⓗ 27
FM D REC Ⓗ 28
S-TAPE Ⓗ 29
TO TBC/Page:3-45
EE Ⓗ 1
CLK135 2
TBC HD 3
TBC VD 4
REC DATA 5
RD BLK 6
REF25 7
H SW 8
PB Y DC 9
DAC Y CNT 10
DAC C CNT 11
TO VITC/Page:3-54
VITC REF 1
LI BATT 2
GND SYS 3
S CLK 4
VITC PB Ⓛ 5
VITC OFF 6
S DATA O 7
S DATA I 8
SYS REG 5.0V 9
VITC WT Ⓛ 10
PP6001 (TO TEST)
16 EXT. DATA
15 EXT. CLK
14 CTLOUT
13 STAB Ⓛ
12 LINEIN
11 LINE Ⓗ
10 HASW
9 NC
8 NC
7 NC
6 SYSGND
5 NC
4 NC
3 SYSGND
2 AOUT (L+R)
1 FACTMODE
TO SUB SERVO/Page:3-46
CYL EC 1
CAP EC 2
CAP VS 3
DRIVE CK 4
CAP SW 5
CYL ON Ⓛ 6
R/S/F 7
GND SYS 8
TL 9
PG 10
CYL FG 11
CAP FG 12
LI BATT
REG 3.8V
ST REG 5V
REG 3.5V
12
13
14
15
16
17
18
19
20
21
22
23

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	3.7	3.7	0	0	3.7	3.7	3.7	3.7	0	0	3.5	2.7	0	0	3.7	0	0	3.7	0
PLAY	0	3.7	0	3.7	0	3.7	3.7	0	0	3.7	0	3.5	2.7	0	0	1.9	0	0	3.7	0
F.F	0	3.7	0	3.7	0	3.7	3.7	3.7	0	0	0	3.5	2.7	0	0	1.9	0	0	3.7	0
REF. NO.	**IC6001**																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	1.9	3.7	3.7	0	3.7	3.5	3.5	3.5	3.5	0	3.5	3.5	3.5	3.5	4.0	3.7	1.9	1.8
PLAY	0	0	1.9	3.7	3.7	0	3.7	3.5	0	3.5	3.5	0	3.5	3.5	3.5	3.5	4.0	3.7	1.9	1.8
F.F	0	0	1.9	3.7	3.7	0	3.7	3.5	3.5	3.5	3.5	0	3.5	3.5	3.5	3.5	4.0	3.7	1.9	1.8
REF. NO.	**IC6001**																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.9	1.0	0	2.6	3.7	3.5	0	3.7	3.7	3.7	3.7	3.0	2.8	3.0	2.4	2.3	3.3	1.5	3.7	1.3
PLAY	1.9	1.0	0	2.6	3.7	3.5	0	0	0.2	0	0	3.0	2.8	3.0	2.4	2.3	3.3	0	3.7	1.3
F.F	1.9	1.0	0	2.6	3.7	3.5	0	3.7	3.7	3.7	3.7	3.0	2.8	3.0	2.4	2.3	3.3	0.7	3.7	1.3
REF. NO.	**IC6001**																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	3.7	0	3.7	3.7	3.7	3.6	1.2	0	3.3	2.8	3.5	1.2	3.2	3.2	0.1	0	1.9	1.9
PLAY	0	0	1.9	0	3.7	3.7	0	3.6	1.2	0	3.3	2.8	1.7	1.2	1.6	1.6	0.1	0	1.9	1.9
F.F	0	0	1.9	0	3.7	3.7	0	3.6	1.2	0	3.3	1.4	1.7	1.2	1.6	1.6	0.1	0	1.9	1.9
REF. NO.	**IC6001**																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	1.7	2.1	3.7	0	0	0	1.8	1.8	0	3.5	1.8	3.7	0.1	3.5	3.7	0	1.2	3.3	2.4	1.8
PLAY	1.7	2.1	3.7	0	0	0	1.8	1.8	0	3.5	1.8	3.7	1.6	1.5	3.7	0	1.2	3.3	2.4	2.4
F.F	1.7	2.1	3.7	0	0	0	1.8	1.8	0	3.5	1.8	3.7	1.5	1.5	3.7	0	1.2	3.3	2.4	1.8
REF. NO.	**IC6001**																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	0	3.5	0	0	3.5	3.5	3.5	3.5	3.7	3.7	3.7	3.7	2.8	1.5	0.9	0	3.7	0	0	0
PLAY	0	3.5	0	0	3.5	3.5	3.5	3.5	3.7	3.7	0	3.7	2.8	1.5	0.9	0	3.7	0	0	0
F.F	0	3.5	0	0	3.5	3.5	3.5	3.5	3.7	3.7	3.7	3.7	2.8	1.5	0.9	0	3.7	0	0	0
REF. NO.	**IC6001**																			
MODE	121	122	123	124	125	126	127	128												
STOP	0	0	0	3.7	0	0	3.7	0												
PLAY	0	0	0	0	0	0	3.7	0												
F.F	0	0	0	3.7	0	0	3.7	0												
REF. NO.	**IC6002**										**IC6004**									
MODE	1	2	3	4	5	6	7	8			1	2	3							
STOP	1.0	0.8	0.6	0	2.6	3.5	2.3	3.3			0	6.5	3.7							
PLAY	1.0	0.8	0.6	0	2.6	3.5	2.3	3.3			0	6.5	3.7							
F.F	1.0	0.8	0.6	0	2.6	3.5	2.3	3.3			0	6.5	3.7							
REF. NO.	**IC6003**																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.3	3.4	2.3	3.6	3.5	0	1.5	1.8	0	0	0	0.1	0	0	0.1	0	0	0	3.2	2.9
PLAY	3.3	3.4	2.3	3.6	3.5	0	1.5	1.8	0	0	0	0.1	0	0	0.1	0	0	0	3.2	2.9
F.F	3.3	3.4	2.3	3.6	3.5	0	1.5	1.8	0	0	0	0.1	0	0	0.1	0	0	0	3.2	2.9
REF. NO.	**IC6005**										**IC6006**									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	0	6.5	4.9	0	0	3.0	0	0			3.4	0.7	0.7	0	3.2	2.3	3.2	4.9		
PLAY	0	6.5	4.9	0	0	3.0	0	0			1.7	0.7	0.7	0	3.2	2.3	3.2	4.9		
F.F	0	6.5	4.9	0	0	3.0	0	0			1.7	0.7	0.7	0	3.2	2.3	3.2	4.9		
REF. NO.	**IC6008**										**IC6009**									
MODE	1	2	3	4	5						1	2	3	4	5					
STOP	0	0	2.5	3.4	3.5						0	0	0	3.7	3.7					
PLAY	0	0	2.5	3.4	3.5						0	0	0	3.7	3.7					
F.F	0	0	2.5	3.4	3.5						0	0	0	3.7	3.7					
REF. NO.	**IC6010**																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	0	0	0	0	3.5	0	0	3.5	3.5	3.2	3.3	1.3	0	3.5						
PLAY	0	0	0	0	3.5	0	0	3.5	3.5	0.1	3.3	0	0	3.5						
F.F	0	0	0	0	3.5	0.1	0	3.5	3.5	3.2	3.3	1.3	0	3.5						
REF. NO.	**IC6011**										**IC6013**									
MODE	1	2	3								1	2	3	4	5	6	7	8		
STOP	0	6.5	3.5								1.5	1.7	1.7	0	1.7	3.5	3.5	3.5		
PLAY	0	6.5	3.5								1.5	1.7	1.7	0	1.7	3.5	3.5	3.5		
F.F	0	6.5	3.5								1.5	1.7	1.7	0	1.7	3.5	3.5	3.5		
REF. NO.	**IC6012**																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	1.8	1.4	1.3	2.7	3.6	1.0	2.8	0	4.8	4.8	3.3	0.8	0.2	0	3.3	2.3	1.7	1.6	0
PLAY	0	1.8	1.4	1.3	2.7	3.6	1.0	2.8	0	4.8	4.8	3.3	0.8	0.2	0	3.3	2.3	1.7	1.6	0
F.F	0	1.8	1.4	1.3	2.7	3.6	1.0	2.8	0	4.8	4.8	3.3	0.8	0.2	0	3.3	2.3	1.7	1.6	0

Back Page:
SYSTEM CTL & SERVO Section

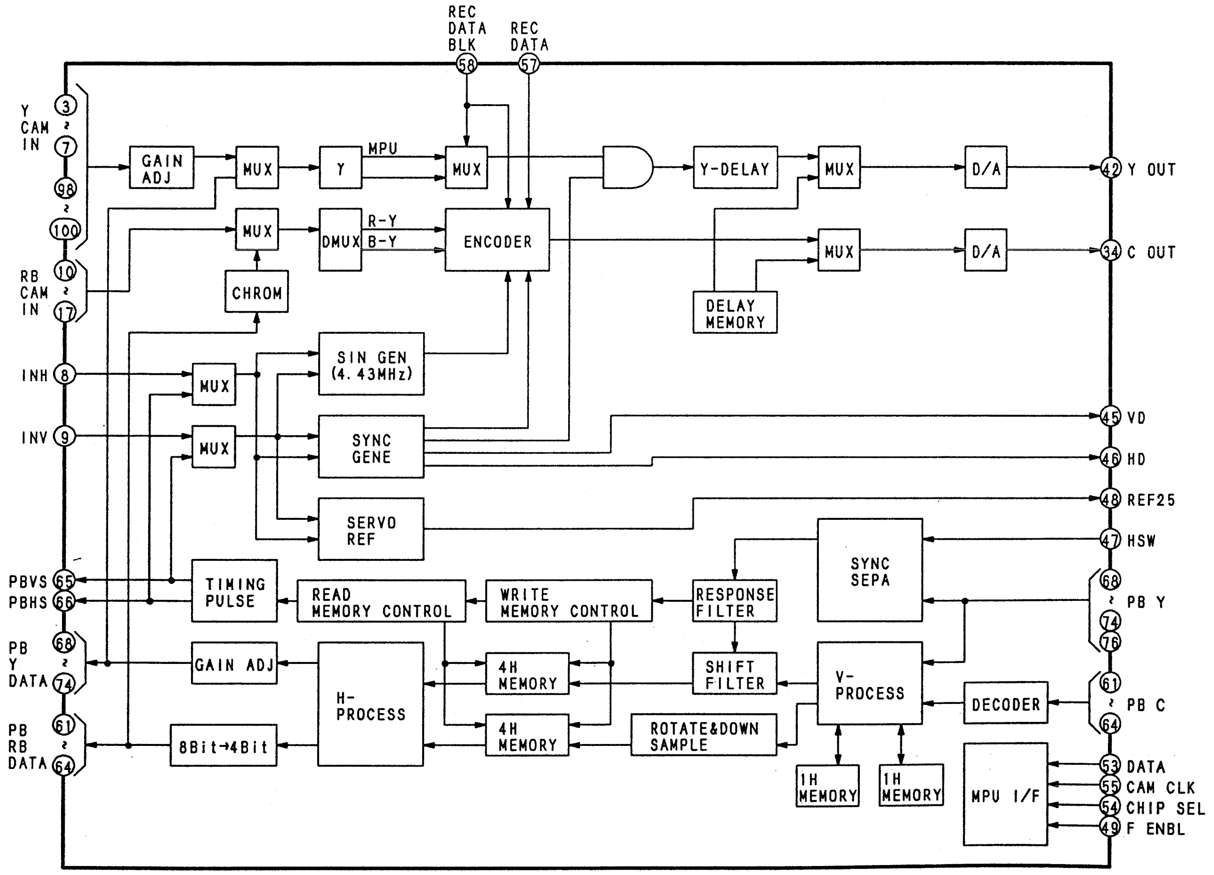
SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q6001			Q6002			Q6003			Q6004			Q6005					
MODE	E	C	B	E	C	B	E	C	B	E	C	B	1	2	3	4	5	6
STOP	2.8	2.7	0.2	0	6.5	0	6.5	6.2	5.6	1.5	3.7	0.2	0	2.7	0.2	4.6	0.1	4.1
PLAY	2.8	2.7	0.2	0	6.5	0	6.5	6.2	5.6	1.5	3.7	0.2	0	2.7	0.2	4.6	0.1	4.1
F.F	2.8	2.7	0.2	0	6.5	0	6.5	6.2	5.6	1.5	3.7	0.2	0	2.7	0.2	4.6	0.1	4.1
REF. NO.	**Q6006**			**Q6007**			**Q6201**											
MODE	E	C	B	E	C	B	E	C	B									
STOP	0	0	0	0	3.6	0	3.7	3.7	3.2									
PLAY	0	0	0	0	3.6	0	3.7	3.7	3.2									
F.F	0	0	0	0	3.6	0	3.7	3.7	3.2									
REF. NO.	**QR6001**			**QR6002**			**QR6003**			**QR6004**						**QR6005**		
MODE	E	C	B	E	C	B	E	C	B	1	2	3	4	5	6	E	C	B
STOP	3.7	3.7	0	3.5	0	3.7	3.5	0	3.7	3.5	3.7	0	3.5	0	3.4	0	3.2	0
PLAY	3.7	3.7	0	3.5	0	3.7	3.5	0	3.7	3.5	0	3.4	3.5	3.7	0	0	3.2	0
F.F	3.7	3.7	0	3.5	0	3.7	3.5	0	3.7	3.5	0	3.4	3.5	3.7	0	0	3.2	0
REF. NO.	**QR6006**			**QR6007**			**QR6008**			**QR6010**						**QR6014**		
MODE	E	C	B	E	C	B	E	C	B	1	2	3	4	5		E	C	B
STOP	0	2.9	0	0	0	3.6	0	3.2	3.3	3.2	0	3.0	0.3	0.1		0	3.7	0
PLAY	0	3.2	0	0	0	3.6	0	3.2	3.3	3.2	0	3.0	0.3	0.1		0	3.7	0
F.F	0	2.9	0	0	0	3.6	0	3.2	3.3	3.2	0	3.0	0.3	0.1		0	3.7	0
REF. NO.	**QR6015**																	
MODE	E	C	B															
STOP	0	6.3	0															
PLAY	0	6.0	0															
F.F	0	5.8	0															

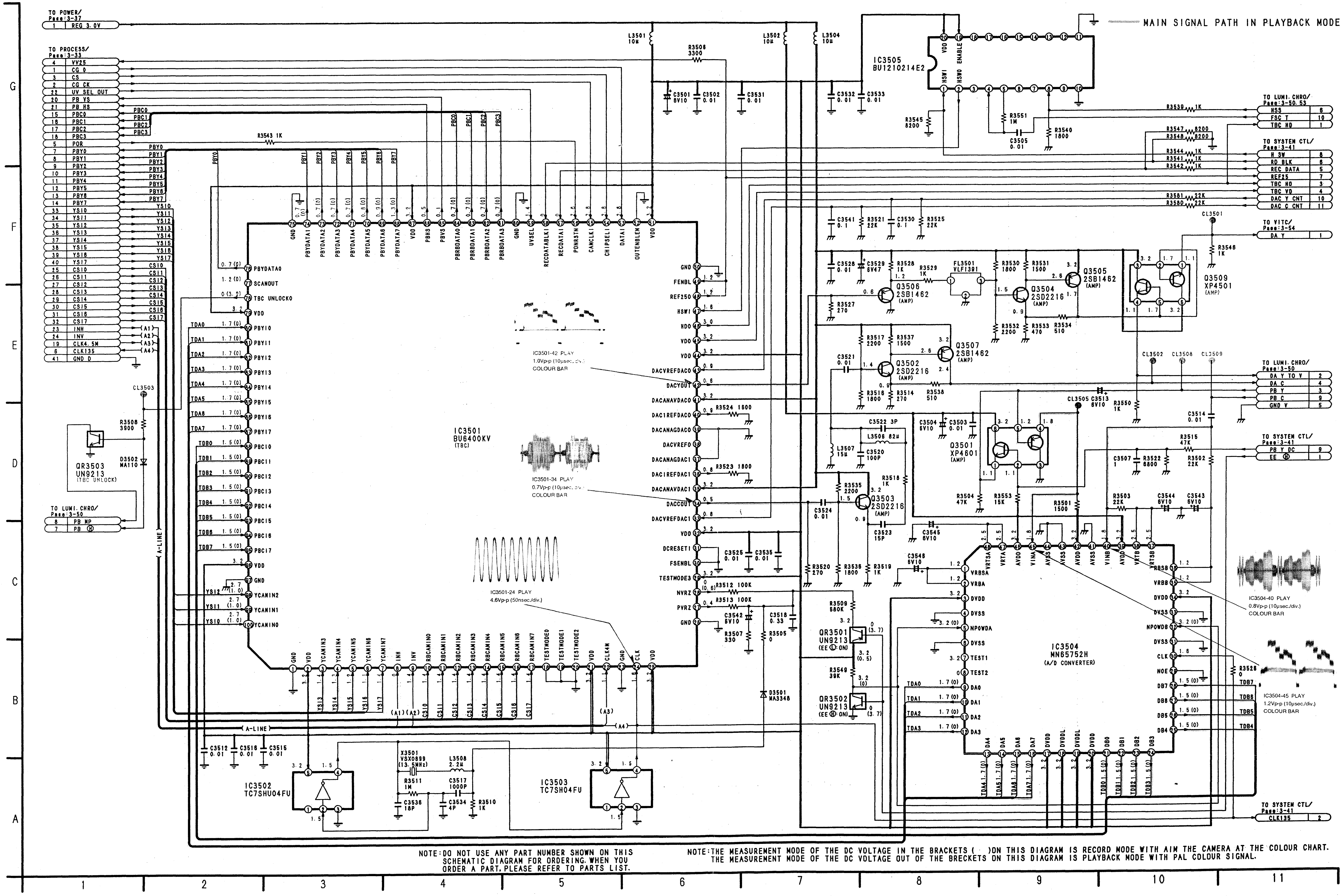
TBC IC BLOCK

IC3501 : BU6400KV

(SCHAMATIC DIAGRAM : Page 3 - 44 / D - 4)


REC DATA BLK 58
REC DATA 57
Y CAM IN 3 ~ 7
98 ~ 100
RB CAM IN 10 ~ 17
INH 8
INV 9
PBVS 65
PBHS 66
PB Y DATA 68 ~ 74
PB RB DATA 61 ~ 64
GAIN ADJ
MUX
Y
MPU
MUX
MUX
DMUX
R-Y
B-Y
ENCODER
CHROM
Y-DELAY
MUX
D/A
MUX
D/A
DELAY MEMORY
SIN GEN (4.43MHz)
MUX
MUX
SYNC GENE
SERVO REF
TIMING PULSE
READ MEMORY CONTROL
WRITE MEMORY CONTROL
RESPONSE FILTER
SYNC SEPA
GAIN ADJ
H-PROCESS
4H MEMORY
4H MEMORY
SHIFT FILTER
V-PROCESS
ROTATE&DOWN SAMPLE
DECODER
8Bit→4Bit
1H MEMORY
1H MEMORY
MPU I/F
42 Y OUT
34 C OUT
45 VD
46 HD
48 REF25
47 HSW
68 ~ 74 76 PB Y
61 ~ 64 PB C
53 DATA
55 CAM CLK
54 CHIP SEL
49 F ENBL

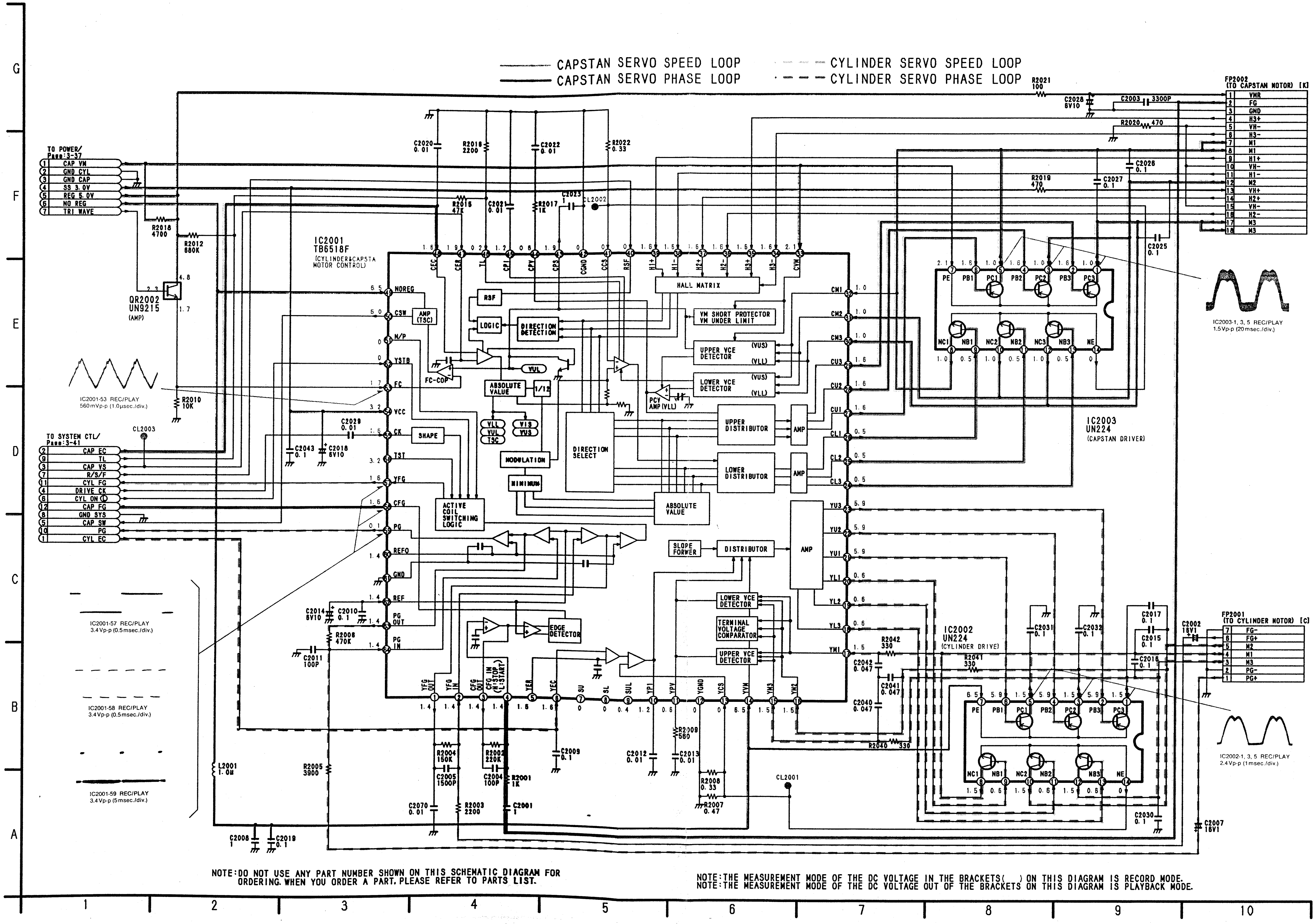
3-16. TBC SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN PLAYBACK MODE
TO POWER/ Page:3-37
REG 3.0V
TO PROCESS/ Page:3-33
VV25
CG 0
CS
CG CK
UV SEL OUT
PB VS
PB HS
PBC0
PBC1
PBC2
PBC3
POR
PBY0
PBY1
PBY2
PBY3
PBY4
PBY5
PBY6
PBY7
YS10
YS11
YS12
YS13
YS14
YS15
YS16
YS17
CS10
CS11
CS12
CS13
CS14
CS15
CS16
CS17
INH
INV
CLK4.5M
CLK135
GND D
CL3503
R3508 3900
QR3503 UN9213 (TBC UNLOCK)
D3502 MA110
TO LUMI.CHRO/ Page:3-50
PB MP
PB Ⓗ
A-LINE
IC3501 BU6400KV (TBC)
IC3501-42 PLAY 1.0Vp-p (10μsec./div.) COLOUR BAR
IC3501-34 PLAY 0.7Vp-p (10μsec./div.) COLOUR BAR
IC3501-24 PLAY 4.6Vp-p (50nsec./div.)
R3543 1K
L3501 10μ
R3506 3300
L3502 10μ
L3504 10μ
C3501 6V10
C3502 0.01
C3531 0.01
C3532 0.01
C3533 0.01
IC3505 BU1210214E2
R3545 8200
R3561 1M
C3505 0.01
R3540 1800
TO LUMI.CHRO/ Page:3-50, 53
HSS
FSC T
TBC HD
TO SYSTEM CTL/ Page:3-41
H SW
RD BLK
REC DATA
REF25
TBC HD
TBC VD
DAC Y CNT
DAC C CNT
TO VITC/ Page:3-54
DA Y
CL3501
R3548 1K
Q3509 XP4501 (AMP)
Q3505 2SB1462 (AMP)
Q3504 2SD2216 (AMP)
Q3506 2SB1462 (AMP)
FL3501 VLFI391
Q3507 2SB1462 (AMP)
Q3502 2SD2216 (AMP)
Q3501 XP4601 (AMP)
Q3503 2SD2216 (AMP)
L3507 15μ
L3506 82μ
TO LUMI.CHRO/ Page:3-50
DA Y TO Y
DA C
PB Y
PB C
GND V
TO SYSTEM CTL/ Page:3-41
PB Y DC
EE Ⓗ
CL3502
CL3508
CL3509
CL3505
IC3504 MN65752H (A/D CONVERTER)
IC3504-40 PLAY 0.8Vp-p (10μsec./div.) COLOUR BAR
IC3504-45 PLAY 1.2Vp-p (10μsec./div.) COLOUR BAR
QR3501 UN9213 (EE Ⓛ ON)
QR3502 UN9213 (EE Ⓗ ON)
D3501 MA3348
IC3502 TC7SHU04FU
IC3503 TC7SH04FU
X3501 VSX0899 (13.5MHz)
L3508 2.2μ
R3511 1M
C3517 1000P
C3538 18P
C3534 4P
R3510 1K
C3512 0.01
C3516 0.01
C3515 0.01
TO SYSTEM CTL/ Page:3-41
CLK135
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH AIM THE CAMERA AT THE COLOUR CHART.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRECKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

3-17. SUB SERVO SCHEMATIC DIAGRAM

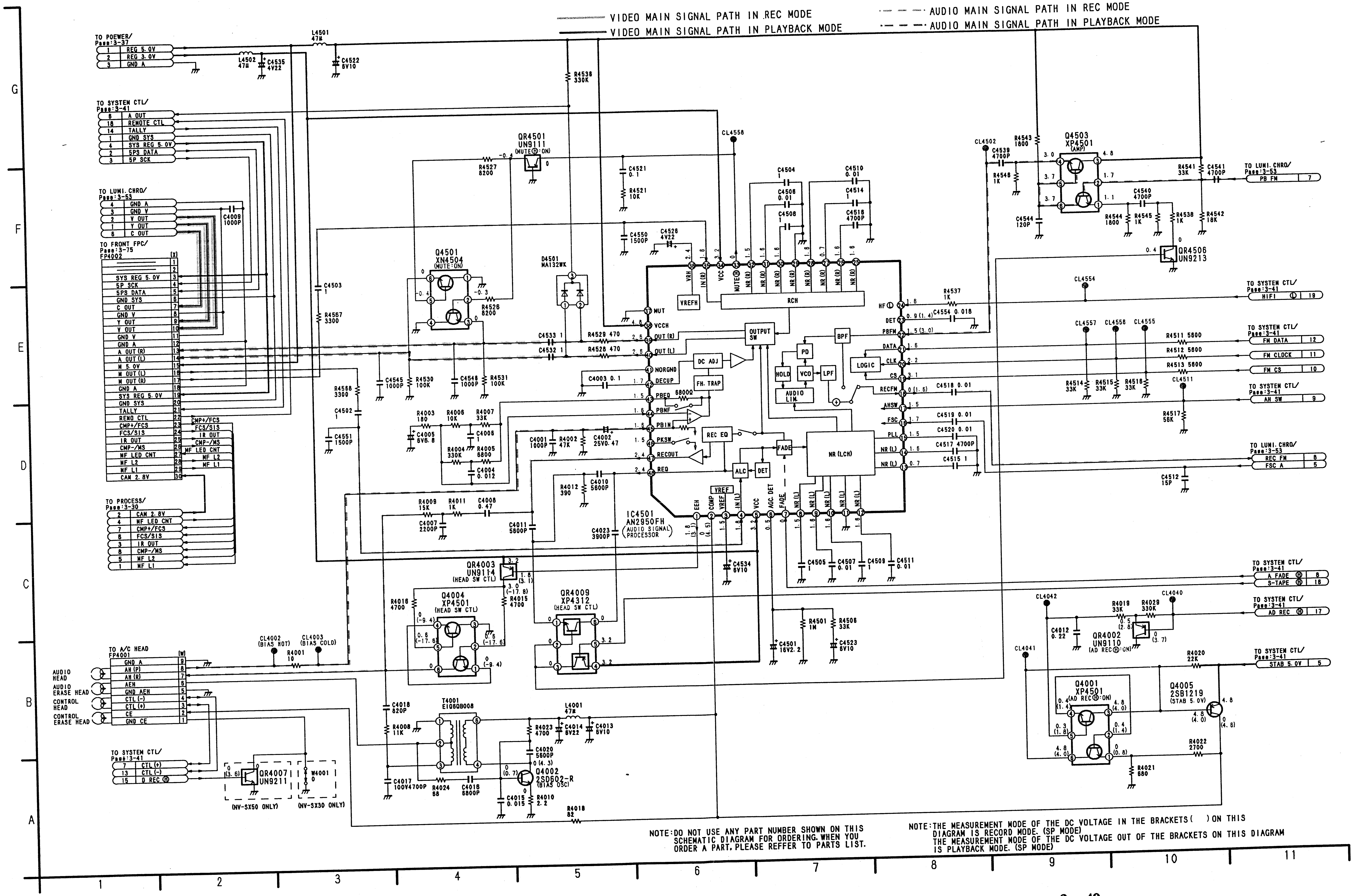

CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
TO POWER/ Page:3-37
CAP VM
GND CYL
GND CAP
SS 5.0V
REG 5.0V
NO REG
TRI WAVE
TO SYSTEM CTL/ Page:3-41
CAP EC
TL
CAP VS
R/S/F
CYL FG
DRIVE CK
CYL ON
CAP FG
GND SYS
CAP SW
PG
CYL EC
IC2001
TB6518F
(CYLINDER&CAPSTAN MOTOR CONTROL)
QR2002
UN9215
(AMP)
IC2003
UN224
(CAPSTAN DRIVER)
IC2002
UN224
(CYLINDER DRIVE)
FP2002
(TO CAPSTAN MOTOR) [K]
VMR
FG
GND
H3+
VH-
H3-
M1
M1
H1+
VH-
H1-
M2
VH+
H2+
VH-
H2-
M3
M3
FP2001
(TO CYLINDER MOTOR) [C]
FG-
FG+
M2
M1
M3
PG-
PG+
HALL MATRIX
VM SHORT PROTECTOR
VM UNDER LIMIT
UPPER VCE DETECTOR
LOWER VCE DETECTOR
UPPER DISTRIBUTOR
LOWER DISTRIBUTOR
DIRECTION SELECT
DIRECTION DETECTION
LOGIC
RSF
AMP (TSC)
FC-COP
ABSOLUTE VALUE
1/12
SHAPE
MODULATION
MINIMUM
ACTIVE COIL SWITCHING LOGIC
ABSOLUTE VALUE
SLOPE FORMER
DISTRIBUTOR
AMP
LOWER VCE DETECTOR
TERMINAL VOLTAGE COMPARATOR
UPPER VCE DETECTOR
EDGE DETECTOR
PCV AMP (VLL)
NOREG
CSW
N/P
YSTB
FC
VCC
CK
TST
YFG
CFG
PG
REFO
GND
REF
PG OUT
PG IN
CEC
CER
TL
CPI
CPV
CPS
CGND
CCS
RSF
H1+
H1-
H2+
H2-
H3+
H3-
CVM
CM1
CM2
CM3
CU3
CU2
CU1
CL1
CL2
CL3
YU3
YU2
YU1
YL1
YL2
YL3
YM1
YFG OUT
YFG IN
CFG OUT
CFG IN
YER
YEC
SU
SL
SUL
YPI
YPV
YGND
YCS
YVM
YH3
YH2
PE
PB1
PC1
PB2
PC2
PB3
PC3
NC1
NB1
NC2
NB2
NC3
NB3
NE
C2020 0.01
R2018 2200
C2022 0.01
R2022 0.33
R2016 47K
C2021 0.01
R2017 1K
C2023 1
CL2002
R2018 4700
R2012 680K
R2010 10K
CL2003
C2029 0.01
C2043 0.1
C2018 6V10
C2014 6V10
C2010 0.1
R2006 470K
C2011 100P
L2001 1.0H
R2005 3900
R2004 150K
C2005 1500P
R2002 220K
C2004 100P
R2001 1K
C2009 0.1
C2070 0.01
R2003 2200
C2001 1
C2012 0.01
C2013 0.01
R2009 560
R2008 0.33
R2007 0.47
CL2001
C2008 1
C2019 0.1
R2021 100
C2028 6V10
C2003 3300P
R2020 470
C2026 0.1
R2019 470
C2027 0.1
C2025 0.1
R2042 330
R2041 330
C2042 0.047
C2041 0.047
C2040 0.047
R2040 330
C2031 0.1
C2032 0.1
C2017 0.1
C2002 16V1
C2015 0.1
C2016 0.1
C2030 0.1
C2007 16V1
IC2001-53 REC/PLAY
560mVp-p (1.0µsec./div.)
IC2001-57 REC/PLAY
3.4Vp-p (0.5msec./div.)
IC2001-58 REC/PLAY
3.4Vp-p (0.5msec./div.)
IC2001-59 REC/PLAY
3.4Vp-p (5msec./div.)
IC2003-1, 3, 5 REC/PLAY
1.5Vp-p (20msec./div.)
IC2002-1, 3, 5 REC/PLAY
2.4Vp-p (1msec./div.)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD MODE.
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

Back Page:
TBC Section

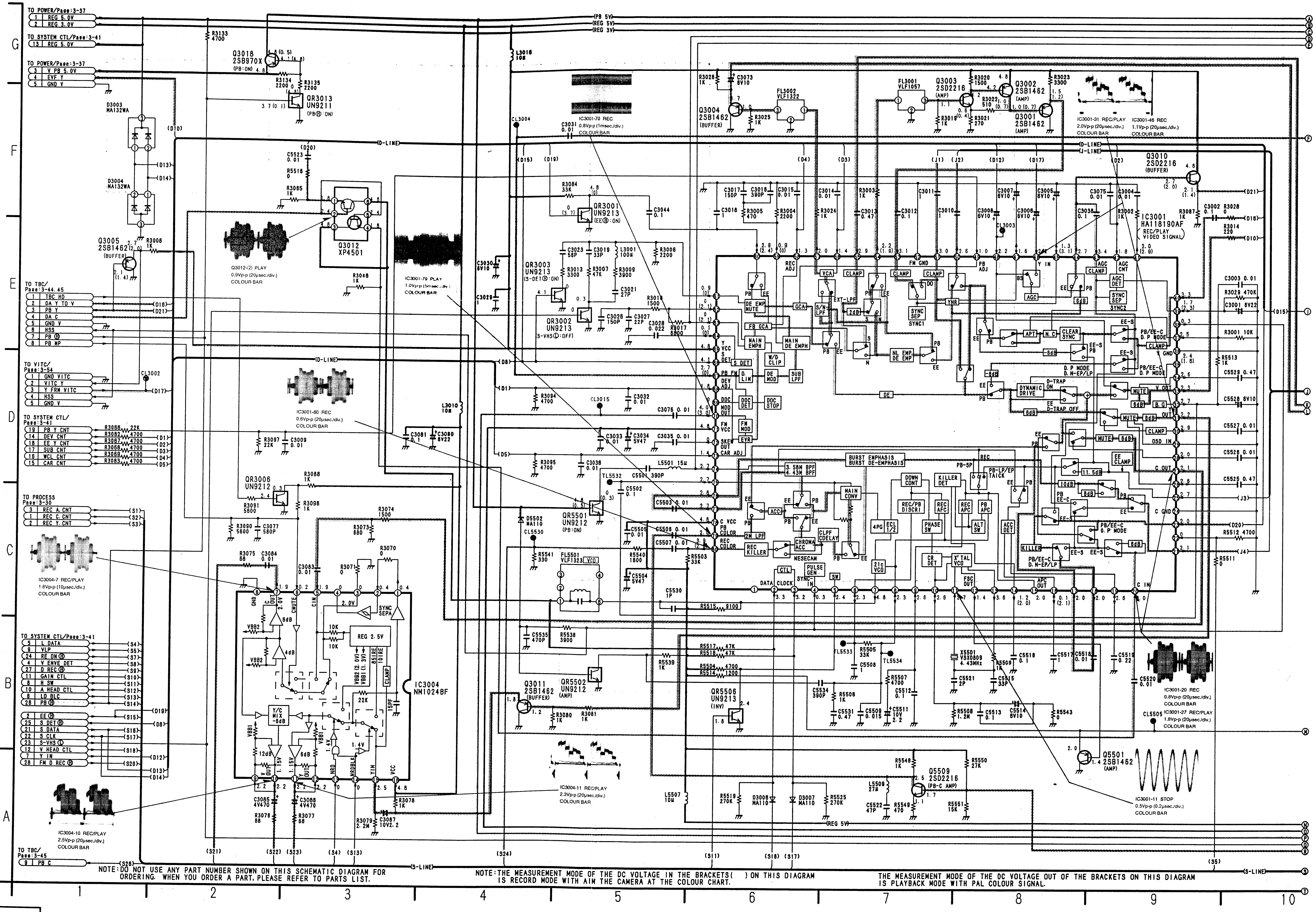
3-18. AUDIO SCHEMATIC DIAGRAM


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
TO POEWER/ Page:3-37
REG 5.0V
REG 3.0V
GND A
TO SYSTEM CTL/ Page:3-41
TO LUMI. CHRO/ Page:3-53
TO FRONT FPC/ Page:3-75
FP4002
TO PROCESS/ Page:3-30
TO A/C HEAD FP4001
AUDIO HEAD
AUDIO ERASE HEAD
CONTROL HEAD
CONTROL ERASE HEAD
QR4501 UN9111 (MUTE Ⓗ:ON)
Q4501 XN4504 (MUTE:ON)
D4501 MA132WK
IC4501 AN2950FH (AUDIO SIGNAL PROCESSOR)
Q4503 XP4501 (AMP)
QR4506 UN9213
QR4003 UN9114 (HEAD SW CTL)
Q4004 XP4501 (HEAD SW CTL)
QR4009 XP4312 (HEAD SW CTL)
T4001 EI06QB008
Q4002 2SD602-R (BIAS OSC)
QR4007 UN9211
(NV-SX50 ONLY)
(NV-SX30 ONLY)
QR4002 UN9110 (AD REC Ⓗ:ON)
Q4001 XP4501 (AD REC Ⓗ:ON)
Q4005 2SB1219 (STAB 5.0V)
OUTPUT SW
DC ADJ
FM. TRAP
REC EQ
ALC
DET
FADE
NR (LCH)
RCH
VREFH
VREF
PD
HOLD
VCO
LPF
BPF
LOGIC
AUDIO LIM.
A FADE
S-TAPE
AD REC
STAB 5.0V
PB FM
HIFI
FM DATA
FM CLOCK
FM CS
AH SW
REC FM
FSC A
CL4002 (BIAS HOT)
CL4003 (BIAS COLD)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD MODE. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE. (SP MODE)

3-19. LUMINANCE / CHROMINANCE SCHEMATIC DIAGRAM

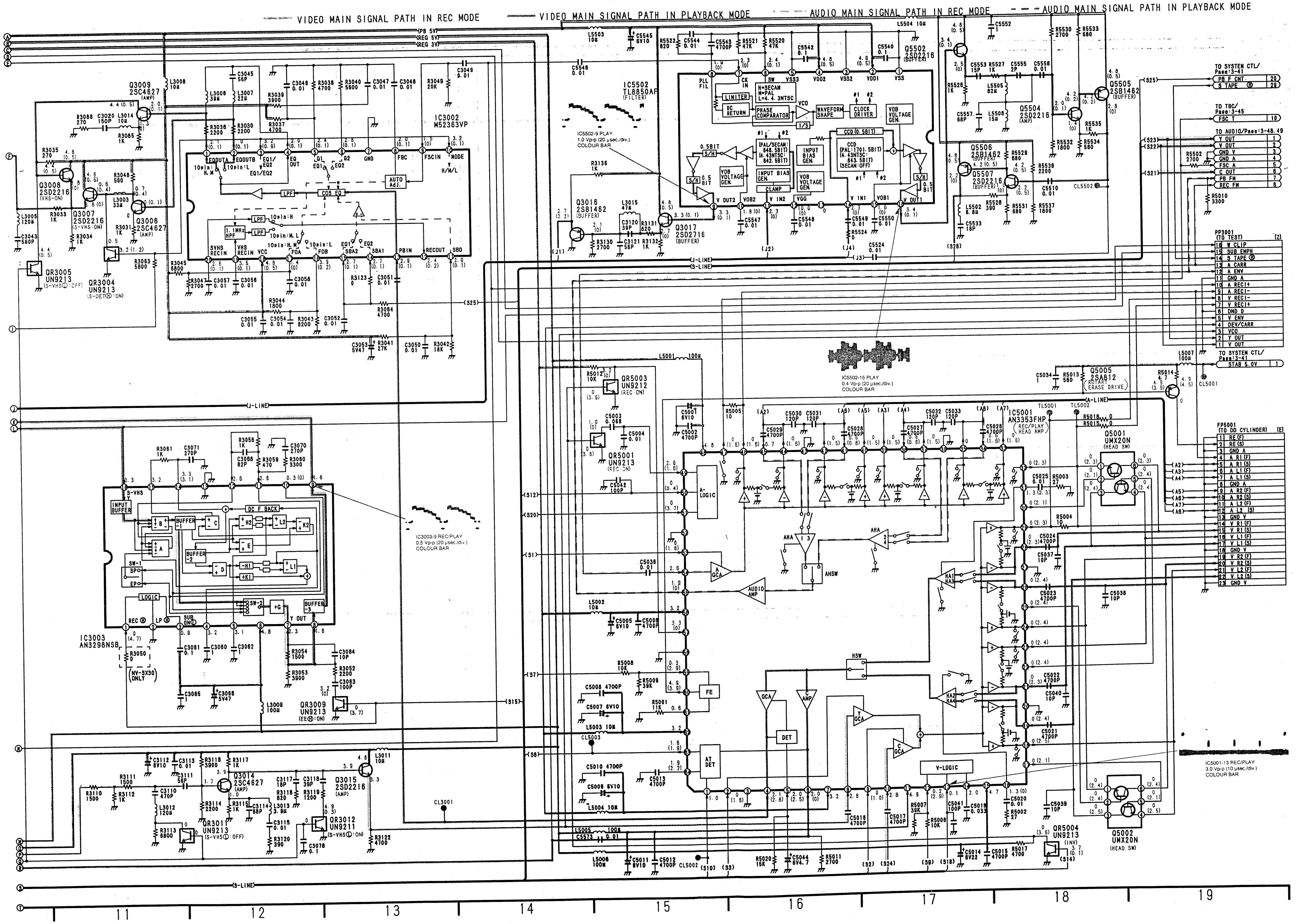

TO POWER/Page:3-37
1 REG 5.0V
2 REG 3.0V
TO SYSTEM CTL/Page:3-41
13 REG 5.0V
TO POWER/Page:3-37
3 V PB 5.0V
4 EVF V
5 GND V
TO TBC/ Page:3-44, 45
1 TBC HD
2 DA Y TO V
3 PB Y
4 DA C
5 GND V
6 HSS
7 PB ⓒ
8 PB WP
TO VITC/ Page:3-54
1 GND VITC
2 VITC Y
3 Y FRM VITC
4 HSS
5 GND V
TO SYSTEM CTL/ Page:3-41
19 PB Y CNT
14 DEV CNT
18 EE Y CNT
17 SUB CNT
16 WCL CNT
15 CAR CNT
TO PROCESS Page:3-30
3 REC A.CNT
1 REC C.CNT
2 REC Y CNT
TO SYSTEM CTL/Page:3-41
5 L DATA
9 VLP
24 RE ON
4 V ENVE DET
27 D REC
11 GAIN CTL
8 H SW
10 A HEAD CTL
6 LD BLC
28 PB
2 EE
25 S DET
21 S DATA
22 S CLK
23 S-VHS
12 V HEAD CTL
7 Y IN
28 FM D REC
TO TBC/ Page:3-45
9 PB C
D3003 MA132WA
D3004 MA132WA
Q3005 2SB1462 (BUFFER)
Q3018 2SB970X (PB:ON)
QR3013 UN9211
Q3012 XP4501
Q3012-② PLAY 0.9Vp-p (20μsec/div.) COLOUR BAR
IC3001-79 PLAY 1.0Vp-p (1msec/div.) COLOUR BAR
IC3001-70 REC 0.8Vp-p (1msec/div.) COLOUR BAR
IC3001-80 REC 0.6Vp-p (20μsec/div.) COLOUR BAR
QR3001 UN9213 (EE:ON)
QR3003 UN9213
QR3002 UN9213 (S-VHS:OFF)
QR3006 UN9212
QR5501 UN9212 (PB:ON)
FL5501 VLF1323
IC3004 NM1024BF
IC3004-7 REC/PLAY 1.6Vp-p (10μsec/div.) COLOUR BAR
IC3004-10 REC/PLAY 2.5Vp-p (20μsec/div.) COLOUR BAR
IC3004-11 REC/PLAY 2.3Vp-p (20μsec/div.) COLOUR BAR
Q3011 2SB1462 (BUFFER)
QR5502 UN9212 (AMP)
QR5506 UN9213 (INV)
Q3004 2SB1462 (BUFFER)
FL3002 VLF1322
FL3001 VLF1057
Q3003 2SD2216 (AMP)
Q3002 2SB1462 (AMP)
Q3001 2SB1462 (AMP)
IC3001-31 REC/PLAY 2.0Vp-p (20μsec/div.) COLOUR BAR
IC3001-46 REC 1.1Vp-p (20μsec/div.) COLOUR BAR
Q3010 2SD2216 (BUFFER)
IC3001 HA118190AF (REC/PLAY VIDEO SIGNAL)
X5501 VSX0809 4.43MHz
Q5509 2SD2216 (PB-C AMP)
Q5501 2SB1462 (AMP)
IC3001-20 REC 0.8Vp-p (20μsec/div.) COLOUR BAR
CL5505
IC3001-27 REC/PLAY 1.8Vp-p (20μsec/div.) COLOUR BAR
IC3001-11 STOP 0.5Vp-p (0.2μsec/div.) COLOUR BAR
D-LINE
S-LINE
(PB 5V)
(REG 5V)
(REG 3V)
(REG 5V)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

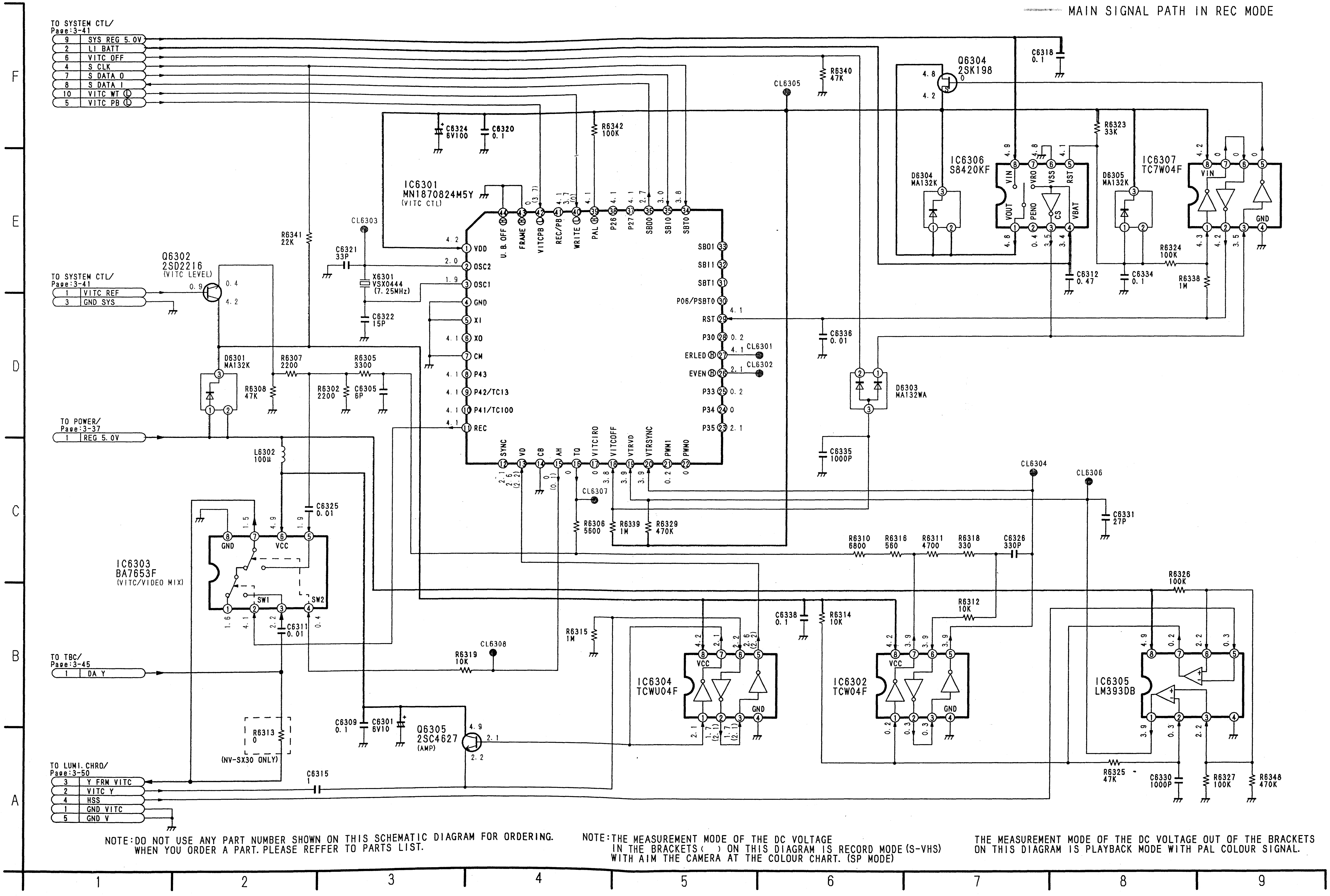
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD MODE WITH AIM THE CAMERA AT THE COLOUR CHART.

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

Back Page:
AUDIO Section


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
(PB 5V)
(REG 5V)
(REG 3V)
Q3009 2SC4627 (AMP)
Q3008 2SD2216 (VHS-ON)
Q3007 2SD2216 (S-VHS-ON)
Q3006 2SC4627 (AMP)
QR3005 UN9213 (S-VHS①:OFF)
QR3004 UN9213 (S-DET①:ON)
IC3002 M52363VP
IC5502 TL8850AF (FILTER)
IC5502-9 PLAY 1.0 Vp-p (20 μsec./div.) COLOUR BAR
Q3016 2SB1462 (BUFFER)
Q3017 2SD2716 (BUFFER)
Q5502 2SD2216 (BUFFER)
Q5505 2SB1462 (BUFFER)
Q5504 2SD2216 (AMP)
Q5506 2SB1462 (BUFFER)
Q5507 2SD2216 (BUFFER)
TO SYSTEM CTL/ Page:3-41
PB F CNT
S TAPE
TO TBC/ Page:3-45
FSC T
TO AUDIO/Page:3-48, 49
Y OUT
V OUT
GND V
GND A
FSC A
C OUT
PB FM
REC FM
PP3001 (TO TEST)
W CLIP
SUB EMPH
S TAPE
A CARR
A ENV
GND A
A REC1+
A REC1-
V REC1-
V REC1+
DND D
V ENV
DEV/CARR
VCO
Y OUT
V OUT
TO SYSTEM CTL/ Page:3-41
STAB 5.0V
IC5502-16 PLAY 0.4 Vp-p (20 μsec./div.) COLOUR BAR
QR5003 UN9212 (REC ON)
QR5001 UN9213 (REC ON)
Q5005 2SA812 (ROTARY ERASE DRIVE)
IC5001 AN3353FHP (REC/PLAY HEAD AMP)
Q5001 UMX20N (HEAD SW)
FP5001 (TO DD CYLINDER)
RE (F)
RE (S)
GND A
A R1 (F)
A R1 (S)
A L1 (F)
A L1 (S)
GND A
A R2 (F)
A R2 (S)
A L2 (F)
A L2 (S)
GND V
V R1 (F)
V R1 (S)
V L1 (F)
V L1 (S)
GND V
V R2 (F)
V R2 (S)
V L2 (F)
V L2 (S)
GND V
IC3003 AN3298NSB
IC3003-9 REC/PLAY 0.5 Vp-p (20 μsec./div.) COLOUR BAR
(NV-SX30) ONLY
QR3009 UN9213 (EE①:ON)
Q3014 2SC4627 (AMP)
Q3015 2SD2216 (AMP)
QR3011 UN9213 (S-VHS①:OFF)
QR3012 UN9211 (S-VHS①:ON)
A-LOGIC
AUDIO AMP
AHSW
FE
AT DET
DET
HSW
V-LOGIC
IC5001-13 REC/PLAY 3.0 Vp-p (10 μsec./div.) COLOUR BAR
QR5004 UN9213 (INV)
Q5002 UMX20N (HEAD SW)
(J-LINE)
(S-LINE)
(A-LINE)
11
12
13
14
15
16
17
18
19

3-20. VITC SCHEMATIC DIAGRAM ; NV-SX50


MAIN SIGNAL PATH IN REC MODE
TO SYSTEM CTL/ Page:3-41
9 SYS REG 5.0V
2 LI BATT
6 VITC OFF
4 S CLK
7 S DATA O
8 S DATA I
10 VITC WT Ⓛ
5 VITC PB Ⓛ
TO SYSTEM CTL/ Page:3-41
1 VITC REF
3 GND SYS
TO POWER/ Page:3-37
1 REG 5.0V
TO TBC/ Page:3-45
1 DA Y
TO LUMI.CHRO/ Page:3-50
3 Y FRM VITC
2 VITC Y
4 HSS
1 GND VITC
5 GND V
IC6301 MN1870824M5Y (VITC CTL)
VDD
OSC2
OSC1
GND
XI
XO
CM
P43
P42/TC13
P41/TC100
REC
SYNC
VD
CB
AH
TQ
VITCIRO
VITCOFF
VTRVD
VTRSYNC
PWM1
PWM0
P35
P34
P33
EVEN Ⓗ
ERLED Ⓗ
P30
RST
P06/PSBT0
SBT1
SBI1
SBO1
SBT0
SBI0
SBO0
P27
P26
PAL Ⓗ
WRITE Ⓛ
REC/PB Ⓛ
VITCPB Ⓛ
FRAME
U.B.OFF
Q6302 2SD2216 (VITC LEVEL)
Q6304 2SK198
Q6305 2SC4627 (AMP)
IC6303 BA7653F (VITC/VIDEO MIX)
SW1
SW2
IC6304 TCWU04F
IC6302 TCW04F
IC6305 LM393DB
IC6306 S8420KF
VIN
VRO
VSS
RST
VOUT
PENO
CS
VBAT
IC6307 TC7W04F
D6301 MA132K
D6303 MA132WA
D6304 MA132K
D6305 MA132K
X6301 VSX0444 (7.25MHz)
L6302 100μ
R6313 0 (NV-SX30 ONLY)
CL6301
CL6302
CL6303
CL6304
CL6305
CL6306
CL6307
CL6308
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

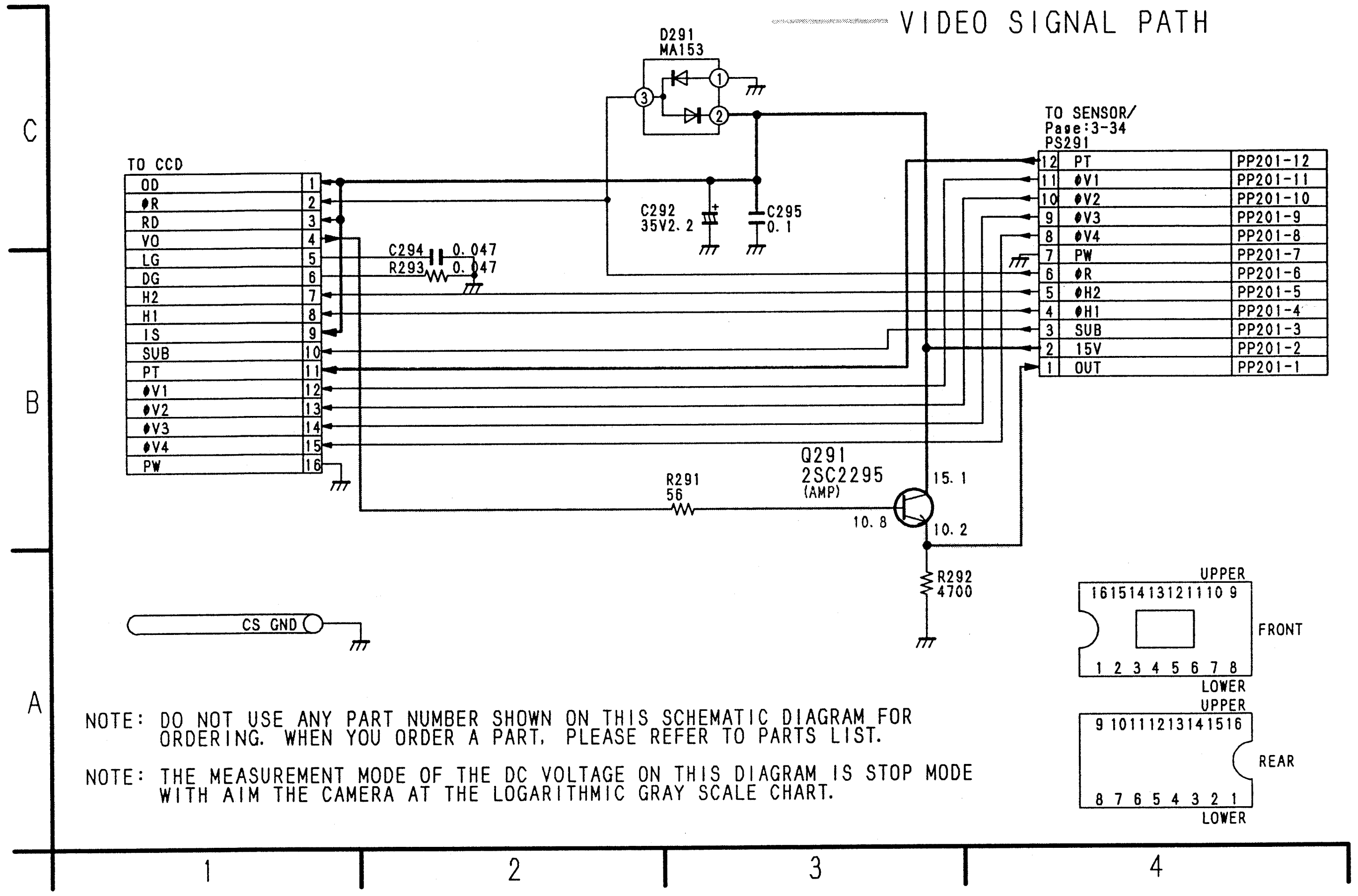
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE (S-VHS) WITH AIM THE CAMERA AT THE COLOUR CHART. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

Back Page:
LUMI/CHRO Section

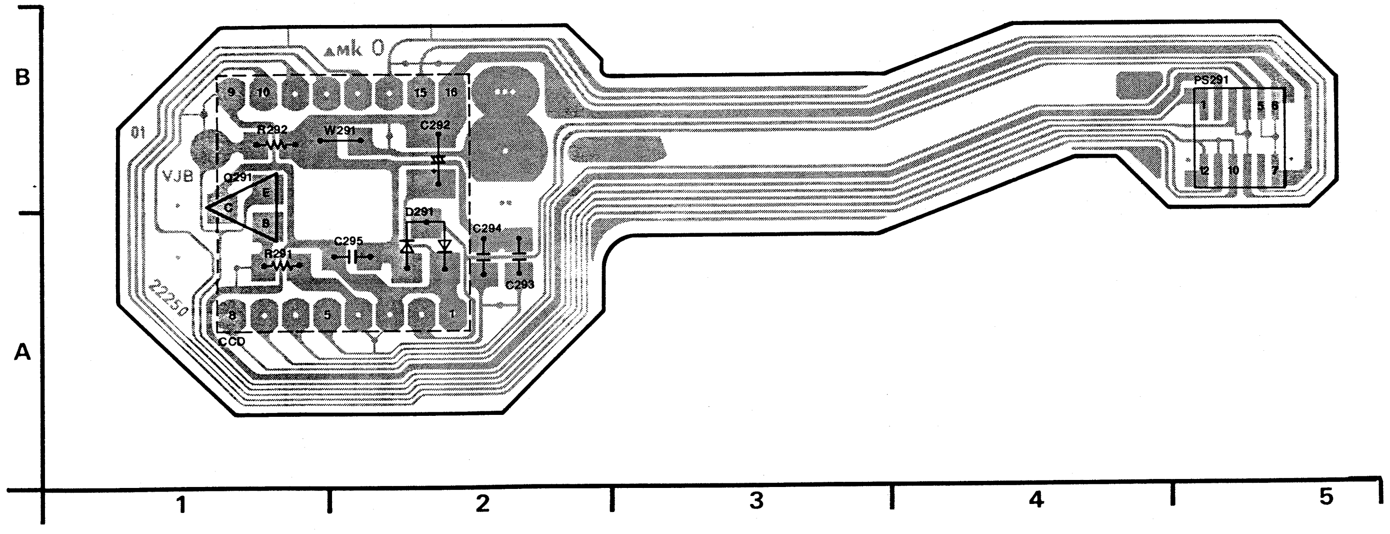
3-21. CCD FLEXIBLE CARD SCHEMATIC DIAGRAM


VIDEO SIGNAL PATH
D291
MA153
TO CCD
OD
ϕR
RD
VO
LG
DG
H2
H1
IS
SUB
PT
ϕV1
ϕV2
ϕV3
ϕV4
PW
C292
35V2. 2
C295
0. 1
C294 0. 047
R293 0. 047
TO SENSOR/
Page:3-34
PS291
PT
ϕV1
ϕV2
ϕV3
ϕV4
PW
ϕR
ϕH2
ϕH1
SUB
15V
OUT
PP201-12
PP201-11
PP201-10
PP201-9
PP201-8
PP201-7
PP201-6
PP201-5
PP201-4
PP201-3
PP201-2
PP201-1
R291
56
Q291
2SC2295
(AMP)
15. 1
10. 8
10. 2
R292
4700
CS GND
UPPER
16 15 14 13 12 11 10 9
FRONT
1 2 3 4 5 6 7 8
LOWER
UPPER
9 10 11 12 13 14 15 16
REAR
8 7 6 5 4 3 2 1
LOWER
C
B
A
1
2
3
4

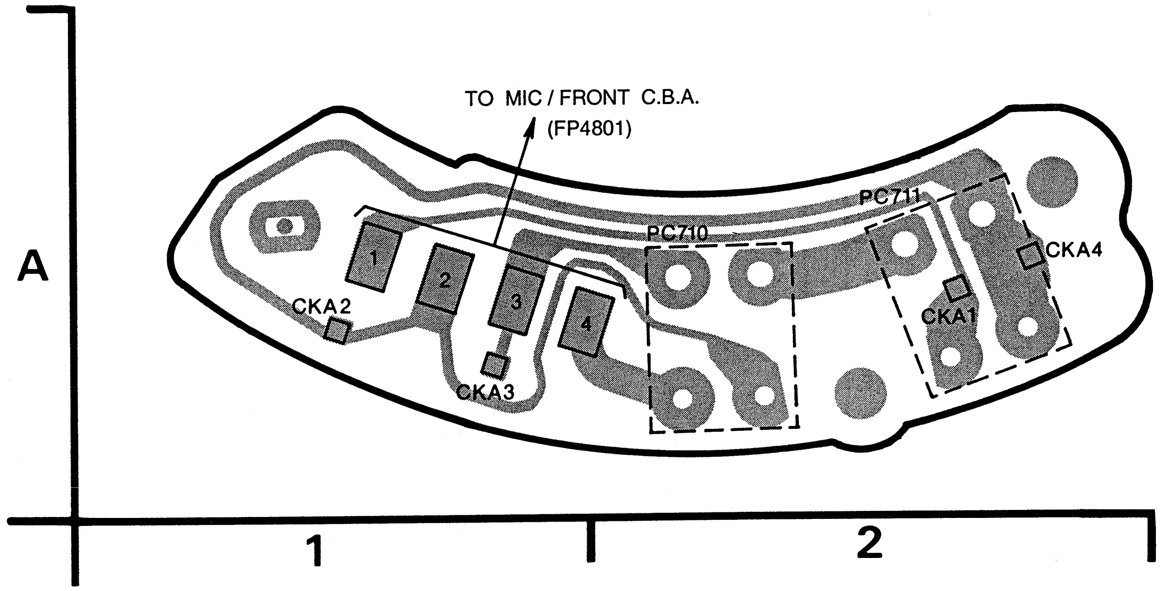
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.

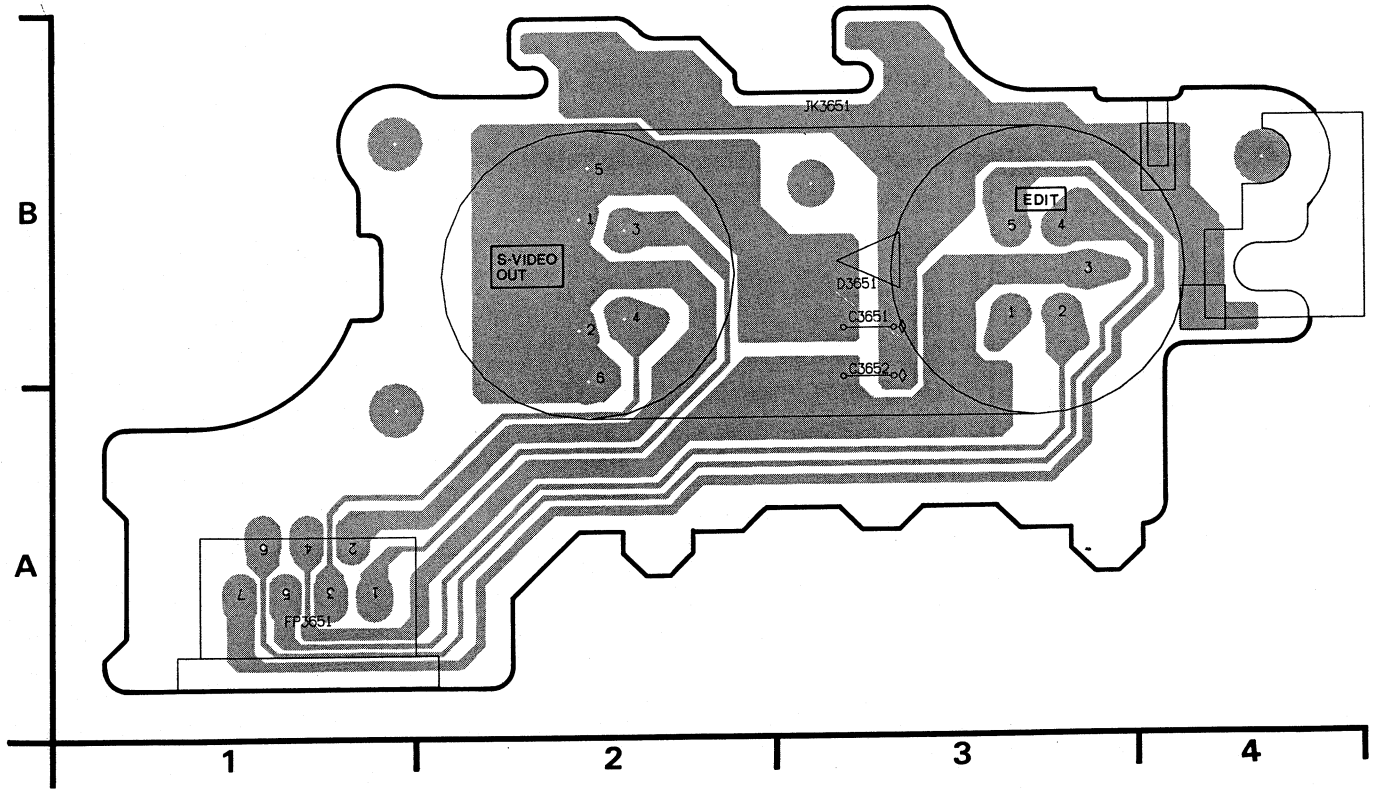
3-22. CCD FLEXIBLE CARD C.B.A. (VEP22250D)


B
A
PS291
R292
W291
C292
Q291
R291
C295
D291
C294
C293
VJB
CCD
22250
1
2
3
4
5

3-23. MF SENSOR C.B.A. (VXP1828)


TO MIC / FRONT C.B.A.
(FP4801)
PC711
PC710
CKA4
CKA1
CKA2
CKA3
1
2
3
4
A
1
2

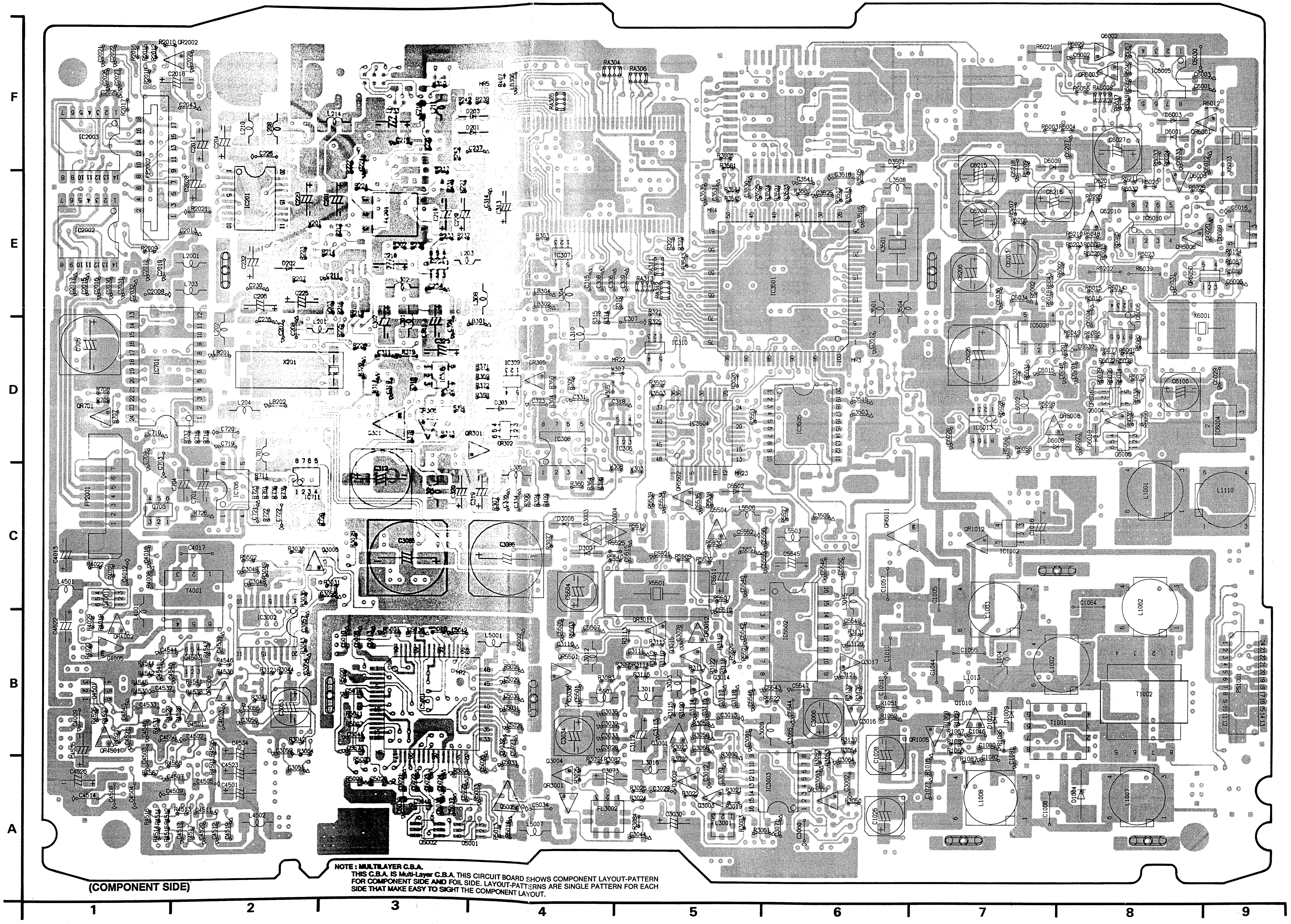
3-24. S / EDIT C.B.A. (VEP03E19A)


JK3651
S-VIDEO OUT
EDIT
D3651
C3651
C3652
FP3651
B
A
1
2
3
4

3-25. MAIN [Lens Drive, Process, Sensor, Power, System Control&Servo,TBC,Sub Servo, Audio,Luminance/Chrominance Section] C.B.A. (VEP023441B) ; NV-SX30

MAIN C.B.A.

COMPONENT SIDE

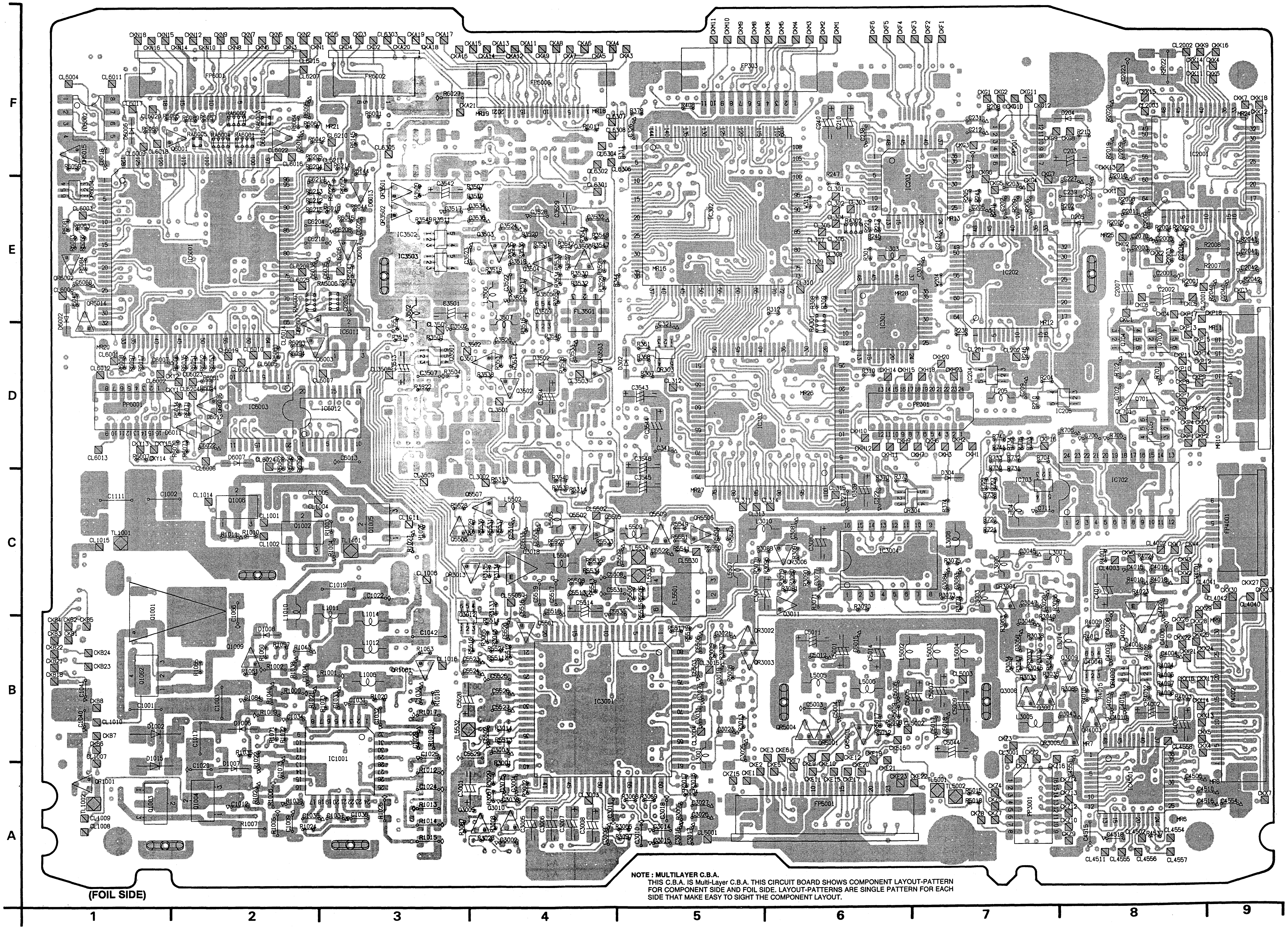

F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
(COMPONENT SIDE)
IC2003
IC2002
FP2002
FP2001
IC701
IC705
IC201
X201
T4001
IC3002
IC307
IC309
IC310
IC308
IC3501
IC3504
IC3505
IC5502
IC3003
X3501
X5501
IC6005
IC5010
IC6008
IC6004
X6001
IC1002
L1001
L1110
L1002
L1003
L1008
L1007
T1001
T1002
FL3002
Q5001
Q5002
L5007
C3005
C3006

NOTE : MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

Back Page: CCD / MF SENSOR C.B.A. / S-EDIT C.B.A. Section

MAIN C.B.A.

FOIL SIDE


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
(FOIL SIDE)
IC6001
IC6003
IC6011
IC6012
IC1001
IC3001
IC3004
IC3502
IC3503
IC301
IC302
IC303
IC201
IC202
IC203
IC205
IC702
IC703
IC2001
FP6001
FP6002
FP6003
FP303
FP5001
FP4001
FP4002
FP701
PP6001
PP301
PP3001
FL3501
FL5501
Q1001
Q1002
Q1005
Q1006

NOTE : MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

MAIN C.B.A. ADDRESS INFORMATION; NV-SX30

MAIN C.B.A.

Integrated Circuit

IC201	E-2	Ⓒ
IC202	E-7	Ⓕ
IC203	E-7	Ⓕ
IC204	D-7	Ⓕ
IC205	D-8	Ⓕ
IC301	E-6	Ⓕ
IC302	E-5	Ⓕ
IC303	D-5	Ⓕ
IC305	D-3	Ⓒ
IC306	D-5	Ⓒ
IC307	E-4	Ⓒ
IC308	D-4	Ⓒ
IC309	D-4	Ⓒ
IC310	D-5	Ⓒ
IC701	D-1	Ⓒ
IC702	C-8	Ⓕ
IC703	C-7	Ⓕ
IC706	C-2	Ⓒ
IC711	C-2	Ⓒ
IC1001	B-3	Ⓕ
IC1002	C-7	Ⓒ
IC2001	F-8	Ⓕ
IC2002	E-1	Ⓒ
IC2003	F-1	Ⓒ
IC3001	B-4	Ⓕ
IC3002	B-2	Ⓒ
IC3003	A-6	Ⓒ
IC3004	C-6	Ⓕ
IC3501	E-6	Ⓒ
IC3502	E-3	Ⓕ
IC3503	E-3	Ⓕ
IC3504	D-5	Ⓒ
IC3505	D-6	Ⓒ
IC4501	A-8	Ⓕ
IC5001	B-3	Ⓒ
IC5502	B-6	Ⓒ
IC6001	E-2	Ⓕ
IC6002	F-1	Ⓕ
IC6003	D-2	Ⓕ
IC6004	D-9	Ⓒ
IC6005	F-8	Ⓒ
IC6006	D-8	Ⓒ
IC6008	D-7	Ⓒ
IC6009	E-9	Ⓒ
IC6010	E-8	Ⓒ
IC6011	D-3	Ⓕ
IC6012	D-3	Ⓕ
IC6013	D-7	Ⓒ

Transistor

Q201	E-3	Ⓒ
Q301	D-3	Ⓒ
Q701	D-8	Ⓕ
Q703	D-8	Ⓕ
Q704	D-8	Ⓕ
Q705	D-8	Ⓕ
Q706	C-1	Ⓒ
Q1001	C-1	Ⓕ
Q1002	C-2	Ⓕ
Q1003	A-1	Ⓕ
Q1004	A-2	Ⓕ
Q1005	C-3	Ⓕ
Q1006	C-2	Ⓕ
Q1009	B-2	Ⓕ
Q1010	B-7	Ⓒ
Q1062	B-1	Ⓕ
Q3001	B-5	Ⓒ
Q3002	A-5	Ⓒ
Q3003	A-5	Ⓒ
Q3004	A-4	Ⓒ
Q3005	A-4	Ⓕ
Q3006	C-2	Ⓒ
Q3007	B-7	Ⓕ
Q3008	B-7	Ⓕ
Q3009	B-8	Ⓕ
Q3010	A-4	Ⓕ
Q3011	C-6	Ⓕ
Q3012	C-3	Ⓕ
Q3014	B-5	Ⓒ
Q3015	B-5	Ⓒ
Q3016	B-6	Ⓒ
Q3017	B-6	Ⓒ
Q3018	C-4	Ⓕ
Q3501	D-3	Ⓕ
Q3502	D-4	Ⓕ
Q3503	E-4	Ⓕ
Q3504	E-4	Ⓕ
Q3505	E-4	Ⓕ
Q3506	E-4	Ⓕ
Q3507	D-4	Ⓕ
Q3509	E-4	Ⓕ
Q4001	C-1	Ⓒ
Q4002	B-8	Ⓕ
Q4004	B-8	Ⓕ
Q4005	B-1	Ⓒ
Q4501	B-1	Ⓒ
Q4503	B-2	Ⓒ
Q5001	A-4	Ⓒ
Q5002	A-3	Ⓒ
Q5005	A-4	Ⓒ
Q5501	B-4	Ⓕ
Q5502	C-4	Ⓕ
Q5504	C-5	Ⓒ
Q5505	C-4	Ⓕ
Q5506	C-3	Ⓕ
Q5507	C-4	Ⓕ
Q5509	C-5	Ⓕ
Q6001	F-2	Ⓕ
Q6002	F-8	Ⓒ
Q6003	D-3	Ⓕ
Q6004	D-8	Ⓒ
Q6005	D-8	Ⓒ
Q6006	E-8	Ⓒ
Q6007	E-3	Ⓕ
Q6201	E-8	Ⓒ

Transistor & Resistor

QR301	D-4	Ⓒ
QR302	D-4	Ⓒ
QR303	D-5	Ⓕ
QR304	C-7	Ⓕ
QR305	D-4	Ⓒ
QR306	D-3	Ⓒ
QR701	D-1	Ⓒ
QR1001	A-1	Ⓕ
QR1005	B-7	Ⓒ
QR1012	C-7	Ⓒ
QR1061	B-3	Ⓕ
QR2002	F-2	Ⓒ
QR3001	A-4	Ⓒ
QR3002	B-5	Ⓕ
QR3003	B-5	Ⓕ
QR3004	C-7	Ⓕ
QR3005	B-8	Ⓕ
QR3006	C-6	Ⓕ
QR3009	A-6	Ⓒ
QR3011	B-5	Ⓒ
QR3012	B-5	Ⓒ
QR3013	C-3	Ⓕ
QR3501	E-3	Ⓕ
QR3502	E-3	Ⓕ
QR3503	D-4	Ⓕ
QR4002	B-1	Ⓒ
QR4003	B-8	Ⓕ
QR4009	B-8	Ⓕ
QR4501	B-1	Ⓒ
QR4506	B-2	Ⓒ
QR5001	B-6	Ⓕ
QR5003	B-6	Ⓕ
QR5004	B-6	Ⓕ
QR5501	B-4	Ⓒ
QR5502	C-5	Ⓒ
QR5506	C-5	Ⓕ
QR6001	F-9	Ⓒ
QR6002	E-1	Ⓕ
QR6003	F-8	Ⓒ
QR6004	E-1	Ⓕ
QR6005	D-2	Ⓕ
QR6006	E-8	Ⓒ
QR6007	D-2	Ⓕ
QR6008	D-8	Ⓒ
QR6010	D-8	Ⓒ
QR6011	C-6	Ⓒ
QR6014	E-1	Ⓕ
QR6015	F-1	Ⓕ
QR6050	E-9	Ⓒ

Diode

D201	F-4	Ⓒ
D202	E-2	Ⓒ
D203	F-4	Ⓒ
D204	F-8	Ⓕ
D205	E-8	Ⓕ
D302	D-5	Ⓕ
D303	D-4	Ⓒ
D304	C-7	Ⓕ
D1002	B-1	Ⓕ
D1004	A-8	Ⓒ
D1006	B-2	Ⓕ
D1007	A-2	Ⓕ
D1008	B-2	Ⓕ
D1009	B-7	Ⓒ
D1015	B-1	Ⓕ
D1020	B-7	Ⓒ
D3003	C-4	Ⓒ
D3004	C-4	Ⓒ
D3006	C-4	Ⓒ
D3007	C-4	Ⓒ
D3501	F-6	Ⓒ
D3502	D-4	Ⓕ
D4501	B-2	Ⓒ
D5501	C-4	Ⓕ
D5502	C-5	Ⓒ
D6001	F-8	Ⓒ
D6002	E-1	Ⓕ
D6003	F-8	Ⓒ
D6006	F-1	Ⓕ
D6007	D-2	Ⓕ
D6008	D-8	Ⓒ
D6009	F-7	Ⓒ
D6011	D-2	Ⓕ
D6012	D-2	Ⓕ
D6013	E-3	Ⓕ
D6016	F-2	Ⓕ
D6018	D-8	Ⓒ
D6201	E-8	Ⓒ

Transformer

T1001	B-8	Ⓒ
T1002	B-8	Ⓒ
T4001	C-2	Ⓒ

Test Point

CL201	D-7	Ⓕ
CL202	D-7	Ⓕ
CL301	E-6	Ⓕ
CL302	E-6	Ⓕ
CL303	E-6	Ⓕ
CL304	E-6	Ⓕ
CL305	E-6	Ⓕ
CL306	E-6	Ⓕ
CL307	E-6	Ⓕ
CL308	E-6	Ⓕ
CL309	E-6	Ⓕ
CL310	E-6	Ⓕ
CL311	C-5	Ⓕ
CL312	D-5	Ⓕ
CL313	C-5	Ⓕ
CL314	C-6	Ⓕ
CL315	C-6	Ⓕ
CL701	D-8	Ⓕ
CL1001	C-2	Ⓕ
CL1002	C-2	Ⓕ
CL1004	C-2	Ⓕ
CL1005	C-2	Ⓕ
CL1006	C-3	Ⓕ
CL1007	B-1	Ⓕ
CL1008	A-1	Ⓕ
CL1009	A-1	Ⓕ
CL1010	B-1	Ⓕ
CL1011	C-3	Ⓕ
CL1014	C-2	Ⓕ
CL1015	C-1	Ⓕ
CL1016	B-3	Ⓕ
CL2001	E-9	Ⓕ
CL2002	F-8	Ⓕ
CL2003	F-8	Ⓕ
CL3001	B-7	Ⓕ
CL3002	C-4	Ⓕ
CL3003	A-4	Ⓕ
CL3004	B-5	Ⓕ
CL3015	B-5	Ⓕ
CL3501	D-4	Ⓕ
CL3502	D-3	Ⓕ
CL3503	D-4	Ⓕ
CL3505	D-3	Ⓕ
CL3508	D-3	Ⓕ
CL3509	C-3	Ⓕ
CL4002	C-8	Ⓕ
CL4003	C-8	Ⓕ
CL4040	C-9	Ⓕ
CL4041	C-9	Ⓕ
CL4042	C-9	Ⓕ
CL4502	A-8	Ⓕ
CL4511	A-8	Ⓕ
CL4554	A-8	Ⓕ
CL4555	A-8	Ⓕ
CL4556	A-8	Ⓕ
CL4557	A-8	Ⓕ
CL4558	B-8	Ⓕ
CL5001	A-5	Ⓕ
CL5002	B-6	Ⓕ
CL5003	B-7	Ⓕ
CL5502	C-4	Ⓕ
CL5505	C-4	Ⓕ
CL5530	C-5	Ⓕ
CL6001	D-1	Ⓕ
CL6002	D-1	Ⓕ
CL6003	E-1	Ⓕ
CL6004	F-1	Ⓕ
CL6005	D-2	Ⓕ
CL6006	E-1	Ⓕ
CL6007	D-3	Ⓕ
CL6008	D-2	Ⓕ
CL6009	F-1	Ⓕ
CL6010	D-2	Ⓕ
CL6011	F-1	Ⓕ
CL6012	D-1	Ⓕ
CL6013	D-1	Ⓕ
CL6014	D-2	Ⓕ
CL6015	F-2	Ⓕ
CL6016	F-2	Ⓕ
CL6017	F-1	Ⓕ
CL6018	F-1	Ⓕ
CL6019	D-2	Ⓕ
CL6020	F-1	Ⓕ
CL6021	D-2	Ⓕ
CL6022	F-2	Ⓕ
CL6023	D-2	Ⓕ
CL6024	D-2	Ⓕ
CL6025	E-2	Ⓕ
CL6204	D-2	Ⓕ
CL6206	E-3	Ⓕ
CL6207	F-2	Ⓕ
CL6208	E-2	Ⓕ
CL6210	F-3	Ⓕ
CL6211	F-3	Ⓕ
CL6301	E-4	Ⓕ
CL6302	F-4	Ⓕ
CL6303	F-3	Ⓕ
CL6304	F-4	Ⓕ
CL6305	F-3	Ⓕ
CL6306	F-4	Ⓕ
CL6307	F-4	Ⓕ
CL6308	F-4	Ⓕ
TL1001	C-1	Ⓕ
TL1002	A-1	Ⓕ
TL1401	C-3	Ⓕ
TL5001	A-7	Ⓕ
TL5002	A-7	Ⓕ
TL5532	B-3	Ⓕ
TL5533	C-5	Ⓕ
TL5534	C-5	Ⓕ
CKA3	F-5	Ⓕ
CKA4	F-4	Ⓕ
CKA5	F-4	Ⓕ
CKA6	F-4	Ⓕ
CKA7	F-4	Ⓕ
CKA8	F-4	Ⓕ
CKA9	F-4	Ⓕ
CKA11	F-4	Ⓕ
CKA12	F-4	Ⓕ
CKA13	F-4	Ⓕ
CKA14	F-4	Ⓕ
CKA15	F-4	Ⓕ
CKA16	F-3	Ⓕ
CKA17	F-3	Ⓕ
CKA18	F-3	Ⓕ
CKA19	F-3	Ⓕ
CKA20	F-3	Ⓕ
CKA21	F-3	Ⓕ
CKB1	B-1	Ⓕ
CKB2	B-1	Ⓕ
CKB3	B-1	Ⓕ
CKB4	B-1	Ⓕ
CKB5	B-1	Ⓕ
CKB6	B-1	Ⓕ
CKB7	B-1	Ⓕ
CKB8	B-1	Ⓕ
CKB18	B-1	Ⓕ
CKB21	B-1	Ⓕ
CKB22	B-1	Ⓕ
CKB23	B-1	Ⓕ
CKB24	B-1	Ⓕ
CKC1	E-8	Ⓕ
CKC2	E-8	Ⓕ
CKC3	E-9	Ⓕ
CKC4	E-8	Ⓕ
CKC5	E-8	Ⓕ
CKC6	E-8	Ⓕ
CKD2	F-3	Ⓕ
CKD3	F-3	Ⓕ
CKD4	F-3	Ⓕ
CKD5	F-3	Ⓕ
CKE1	A-5	Ⓕ
CKE2	A-5	Ⓕ
CKE3	B-6	Ⓕ
CKE5	A-6	Ⓕ
CKE6	B-6	Ⓕ
CKE7	A-6	Ⓕ
CKE9	B-6	Ⓕ
CKE10	B-6	Ⓕ
CKE11	A-6	Ⓕ
CKE12	B-6	Ⓕ
CKE15	A-6	Ⓕ
CKE16	B-6	Ⓕ
CKE17	A-6	Ⓕ
CKE19	B-6	Ⓕ
CKE20	A-6	Ⓕ
CKE21	B-6	Ⓕ
CKE22	A-7	Ⓕ
CKE23	A-6	Ⓕ
CKF1	F-7	Ⓕ
CKF2	F-7	Ⓕ
CKF3	F-7	Ⓕ
CKF4	F-6	Ⓕ
CKF5	F-6	Ⓕ
CKF6	F-6	Ⓕ
CKG1	F-7	Ⓕ
CKG2	F-7	Ⓕ
CKG3	F-7	Ⓕ
CKG4	E-7	Ⓕ
CKG5	E-7	Ⓕ
CKG6	E-7	Ⓕ
CKG7	E-7	Ⓕ
CKG8	F-8	Ⓕ
CKG9	F-8	Ⓕ
CKG10	F-7	Ⓕ
CKG11	F-7	Ⓕ
CKG12	F-7	Ⓕ
CKH1	D-7	Ⓕ
CKH2	D-7	Ⓕ
CKH3	D-7	Ⓕ
CKH6	D-7	Ⓕ
CKH7	D-7	Ⓕ
CKH9	D-6	Ⓕ
CKH10	D-6	Ⓕ
CKH11	D-6	Ⓕ
CKH12	D-6	Ⓕ
CKH14	D-6	Ⓕ
CKH15	D-6	Ⓕ
CKH18	D-7	Ⓕ
CKH20	D-7	Ⓕ
CKH23	D-7	Ⓕ
CKK1	E-8	Ⓕ
CKK2	E-8	Ⓕ
CKK4	F-9	Ⓕ
CKK6	F-9	Ⓕ
CKK7	F-9	Ⓕ
CKK9	F-9	Ⓕ
CKK11	F-8	Ⓕ
CKK12	F-9	Ⓕ
CKK13	F-8	Ⓕ
CKK14	F-8	Ⓕ
CKK15	F-8	Ⓕ
CKK16	F-9	Ⓕ
CKK18	F-9	Ⓕ
CKM1	F-6	Ⓕ
CKM2	F-6	Ⓕ
CKM3	F-6	Ⓕ
CKM4	F-6	Ⓕ
CKM5	F-6	Ⓕ
CKM6	F-6	Ⓕ
CKM8	F-5	Ⓕ
CKM9	F-5	Ⓕ
CKM10	F-5	Ⓕ
CKM11	F-5	Ⓕ
CKN1	F-2	Ⓕ
CKN2	F-2	Ⓕ
CKN3	F-2	Ⓕ
CKN5	F-2	Ⓕ
CKN6	F-2	Ⓕ
CKN7	F-2	Ⓕ
CKN8	F-2	Ⓕ
CKN9	F-2	Ⓕ
CKN10	F-2	Ⓕ
CKN12	F-2	Ⓕ
CKN14	F-2	Ⓕ
CKN15	F-1	Ⓕ
CKN16	F-1	Ⓕ
CKN18	F-1	Ⓕ
CKP1	D-8	Ⓕ
CKP2	D-9	Ⓕ
CKP3	D-9	Ⓕ
CKP4	D-8	Ⓕ
CKP5	D-8	Ⓕ
CKP6	D-8	Ⓕ
CKP7	D-8	Ⓕ
CKP8	D-8	Ⓕ
CKP9	D-8	Ⓕ
CKP10	D-8	Ⓕ
CKP11	D-8	Ⓕ
CKP12	D-9	Ⓕ
CKP13	D-8	Ⓕ
CKP14	D-9	Ⓕ
CKP15	D-9	Ⓕ
CKP16	D-7	Ⓕ
CKP17	D-8	Ⓕ
CKP18	D-9	Ⓕ
CKW2	C-8	Ⓕ
CKW3	C-8	Ⓕ
CKW4	C-8	Ⓕ
CKW6	C-8	Ⓕ
CKW7	C-8	Ⓕ
CKX4	B-8	Ⓕ
CKX5	B-8	Ⓕ
CKX7	A-9	Ⓕ
CKX13	B-8	Ⓕ
CKX14	B-8	Ⓕ
CKX16	B-8	Ⓕ
CKX17	B-8	Ⓕ
CKX21	B-8	Ⓕ
CKX22	B-8	Ⓕ
CKX23	C-9	Ⓕ
CKX24	B-8	Ⓕ
CKX25	B-8	Ⓕ
CKX26	B-8	Ⓕ
CKX27	C-9	Ⓕ
CKX28	B-8	Ⓕ
CKX29	B-8	Ⓕ
CKX30	C-9	Ⓕ
CKY1	D-2	Ⓕ
CKY2	D-2	Ⓕ
CKY13	D-1	Ⓕ
CKY14	D-1	Ⓕ
CKY15	D-1	Ⓕ
CKZ1	A-7	Ⓕ
CKZ2	A-7	Ⓕ
CKZ3	B-7	Ⓕ
CKZ4	A-7	Ⓕ
CKZ5	A-7	Ⓕ
CKZ7	A-7	Ⓕ
CKZ8	A-7	Ⓕ
CKZ9	A-8	Ⓕ
CKZ10	A-8	Ⓕ
CKZ12	A-8	Ⓕ
CKZ13	A-8	Ⓕ
CKZ14	A-8	Ⓕ
CKZ15	A-5	Ⓕ
CKZ16	A-7	Ⓕ

Connector

FP303	F-5	Ⓕ
FP701	D-9	Ⓕ
FP2001	C-1	Ⓒ
FP2002	F-1	Ⓒ
FP4001	C-9	Ⓕ
FP4002	B-9	Ⓕ
FP5001	A-6	Ⓕ
FP6001	F-2	Ⓕ
FP6002	F-3	Ⓕ
FP6006	F-4	Ⓕ
PP201	F-7	Ⓕ
PP301	D-7	Ⓕ
PP3001	A-7	Ⓕ
PP6001	D-1	Ⓕ
PS1001	B-9	Ⓒ

Crystal Oscillator

X201	D-1	Ⓒ
X3501	E-6	Ⓒ
X5501	C-5	Ⓒ
X6001	D-9	Ⓒ
X6003	F-9	Ⓒ

Filter

FL201	E-3	Ⓒ
FL3001	A-5	Ⓒ
FL3002	A-4	Ⓒ
FL3501	E-4	Ⓕ
FL5501	C-5	Ⓕ

Coil

L201	D-2	Ⓒ
L202	D-2	Ⓒ
L203	E-3	Ⓒ
L204	D-2	Ⓒ
L205	D-7	Ⓕ
L208	F-2	Ⓒ
L210	F-2	Ⓒ
L211	F-3	Ⓒ
L214	F-3	Ⓒ
L301	D-3	Ⓒ
L302	E-3	Ⓒ
L303	E-6	Ⓕ
L304	E-4	Ⓒ
L305	C-3	Ⓒ
L306	C-4	Ⓒ
L308	E-4	Ⓒ
L310	D-4	Ⓒ
L701	D-2	Ⓒ
L703	E-2	Ⓒ
L704	C-7	Ⓕ
L1001	C-8	Ⓒ
L1002	B-8	Ⓒ
L1003	B-7	Ⓒ
L1004	B-7	Ⓒ
L1006	B-3	Ⓕ
L1007	A-8	Ⓒ
L1008	A-7	Ⓒ
L1010	C-2	Ⓕ
L1011	C-3	Ⓕ
L1012	B-3	Ⓕ
L1013	B-7	Ⓒ
L1014	B-3	Ⓕ
L1062	C-8	Ⓒ
L1110	C-9	Ⓒ
L2001	E-2	Ⓒ
L3001	B-5	Ⓕ
L3003	C-7	Ⓕ
L3005	B-7	Ⓕ
L3006	C-7	Ⓕ
L3007	C-8	Ⓕ
L3008	C-7	Ⓕ
L3009	B-6	Ⓒ
L3010	C-6	Ⓕ
L3011	B-5	Ⓒ
L3012	B-4	Ⓒ
L3013	B-5	Ⓒ
L3014	B-8	Ⓕ
L3015	C-6	Ⓒ
L3016	A-5	Ⓒ
L3501	E-6	Ⓒ
L3502	E-3	Ⓕ
L3504	E-6	Ⓒ
L3506	E-4	Ⓕ
L3507	D-4	Ⓕ
L3508	E-6	Ⓒ
L4001	B-1	Ⓒ
L4501	C-1	Ⓒ
L4502	A-2	Ⓒ
L5001	B-4	Ⓒ
L5002	B-6	Ⓕ
L5003	B-7	Ⓕ
L5004	B-7	Ⓕ
L5005	B-6	Ⓕ
L5006	B-6	Ⓕ
L5007	A-4	Ⓒ
L5501	B-4	Ⓒ
L5502	C-4	Ⓕ
L5503	C-6	Ⓒ
L5504	C-4	Ⓕ
L5505	C-4	Ⓕ
L5506	C-5	Ⓒ
L5507	C-5	Ⓕ
L5509	C-5	Ⓕ
L6002	D-7	Ⓒ
LB201	D-2	Ⓒ
LB202	D-2	Ⓒ
LB301	D-4	Ⓒ
LB302	E-4	Ⓒ
LB304	E-4	Ⓒ
LB306	F-4	Ⓒ

Capacitor

C201	E-3	Ⓒ
C202	E-7	Ⓕ
C203	F-8	Ⓕ
C204	F-2	Ⓒ
C205	E-7	Ⓕ
C206	E-2	Ⓒ
C207	D-2	Ⓒ
C208	D-2	Ⓒ
C209	D-7	Ⓕ
C210	F-6	Ⓕ
C211	E-3	Ⓒ
C212	F-7	Ⓕ
C213	E-7	Ⓕ
C214	E-3	Ⓒ
C216	F-3	Ⓒ
C217	F-7	Ⓕ
C218	F-3	Ⓒ
C219	E-3	Ⓒ
C220	E-3	Ⓒ
C221	F-3	Ⓒ
C223	E-8	Ⓕ
C225	E-2	Ⓒ
C226	F-2	Ⓒ
C227	E-8	Ⓕ
C229	E-2	Ⓒ
C230	E-2	Ⓒ
C231	F-7	Ⓕ
C232	E-2	Ⓒ
C233	F-3	Ⓒ
C234	E-3	Ⓒ
C235	D-2	Ⓒ
C237	F-4	Ⓒ
C238	F-6	Ⓕ
C239	E-8	Ⓕ
C240	F-6	Ⓕ
C301	D-3	Ⓒ
C302	D-3	Ⓒ
C303	E-7	Ⓕ
C306	E-4	Ⓒ
C307	D-5	Ⓒ
C308	E-4	Ⓒ
C309	E-5	Ⓒ
C310	D-3	Ⓒ
C311	D-3	Ⓒ
C312	C-3	Ⓒ
C313	E-4	Ⓒ
C314	E-4	Ⓒ
C315	E-4	Ⓒ
C318	D-5	Ⓒ
C319	C-4	Ⓒ
C320	C-3	Ⓒ
C321	D-5	Ⓕ
C322	C-6	Ⓕ
C323	D-4	Ⓒ
C324	D-3	Ⓒ
C325	D-3	Ⓒ
C326	F-5	Ⓕ
C327	C-6	Ⓕ
C328	C-6	Ⓕ
C331	D-4	Ⓒ
C334	C-4	Ⓒ
C335	C-4	Ⓒ
C341	D-5	Ⓕ
C701	C-2	Ⓒ
C702	D-8	Ⓕ
C703	C-1	Ⓒ
C704	C-2	Ⓒ
C705	D-1	Ⓒ
C706	D-8	Ⓕ
C709	D-1	Ⓒ
C710	D-1	Ⓒ
C711	C-7	Ⓕ
C719	D-2	Ⓒ
C720	D-2	Ⓒ
C721	C-2	Ⓒ
C722	C-2	Ⓒ
C1001	B-1	Ⓕ
C1002	C-1	Ⓕ
C1003	B-2	Ⓕ
C1004	B-2	Ⓕ
C1005	C-7	Ⓒ
C1008	A-7	Ⓒ
C1009	A-2	Ⓕ
C1010	B-6	Ⓒ
C1012	A-2	Ⓕ
C1016	C-7	Ⓒ
C1017	B-2	Ⓕ
C1019	C-3	Ⓕ
C1020	A-2	Ⓕ
C1022	C-3	Ⓕ
C1024	A-3	Ⓕ
C1025	B-3	Ⓕ
C1026	A-6	Ⓒ
C1027	A-7	Ⓒ
C1028	B-6	Ⓒ
C1029	B-3	Ⓒ
C1030	B-3	Ⓕ
C1031	B-3	Ⓕ
C1032	B-3	Ⓕ
C1033	B-3	Ⓕ
C1034	B-2	Ⓕ
C1035	A-2	Ⓕ
C1036	A-3	Ⓕ
C1037	A-3	Ⓕ
C1040	B-1	Ⓕ
C1041	B-1	Ⓕ
C1042	B-3	Ⓕ
C1044	B-7	Ⓒ
C1046	B-7	Ⓒ
C1051	B-6	Ⓒ
C1055	B-7	Ⓒ
C1057	C-6	Ⓒ
C1064	C-8	Ⓒ
C1066	C-2	Ⓕ
C1073	A-2	Ⓕ
C1080	B-7	Ⓒ
C1081	A-7	Ⓒ
C1082	A-7	Ⓒ
C1084	B-2	Ⓕ
C1111	C-1	Ⓕ
C2001	E-8	Ⓕ
C2002	E-8	Ⓕ
C2003	E-8	Ⓕ
C2004	E-8	Ⓕ
C2005	E-8	Ⓕ
C2007	E-8	Ⓕ
C2008	E-1	Ⓒ
C2009	E-8	Ⓕ
C2010	E-8	Ⓕ
C2011	E-8	Ⓕ
C2012	E-1	Ⓒ
C2013	E-2	Ⓒ
C2014	F-2	Ⓒ
C2015	E-1	Ⓒ
C2016	E-1	Ⓒ
C2017	E-1	Ⓒ
C2018	F-2	Ⓒ
C2019	E-1	Ⓒ
C2020	F-2	Ⓒ
C2021	F-1	Ⓒ
C2022	F-1	Ⓒ
C2023	F-8	Ⓕ
C2025	F-1	Ⓒ
C2026	F-1	Ⓒ
C2027	F-1	Ⓒ
C2028	E-2	Ⓒ
C2029	F-8	Ⓕ
C2030	E-1	Ⓒ
C2031	E-1	Ⓒ
C2032	E-1	Ⓒ
C2040	E-9	Ⓕ
C2041	E-9	Ⓕ
C2042	E-9	Ⓕ
C2043	F-2	Ⓒ
C2070	E-8	Ⓕ
C3001	A-3	Ⓕ
C3002	A-4	Ⓕ
C3003	B-4	Ⓕ
C3004	A-4	Ⓕ
C3005	A-4	Ⓕ
C3006	A-4	Ⓕ
C3007	A-4	Ⓕ
C3008	A-4	Ⓕ
C3009	A-4	Ⓕ
C3010	A-5	Ⓕ
C3011	A-4	Ⓕ
C3012	A-5	Ⓒ
C3013	B-5	Ⓒ
C3014	A-5	Ⓕ
C3015	A-5	Ⓕ
C3016	A-5	Ⓕ
C3017	A-5	Ⓕ
C3018	A-5	Ⓕ
C3019	B-5	Ⓕ
C3020	C-7	Ⓕ
C3021	B-5	Ⓕ
C3023	B-5	Ⓕ
C3025	B-5	Ⓕ
C3026	A-5	Ⓕ
C3027	A-5	Ⓕ
C3028	B-4	Ⓒ
C3029	A-5	Ⓒ
C3030	A-5	Ⓒ
C3031	B-5	Ⓒ
C3032	B-4	Ⓒ
C3033	B-4	Ⓒ
C3034	B-4	Ⓒ
C3035	B-4	Ⓒ
C3036	B-4	Ⓒ
C3038	A-4	Ⓕ
C3043	B-8	Ⓕ
C3044	A-5	Ⓒ
C3045	C-7	Ⓕ
C3046	B-7	Ⓕ
C3047	C-7	Ⓕ
C3048	C-2	Ⓒ
C3049	C-2	Ⓒ
C3050	B-2	Ⓒ
C3051	A-2	Ⓒ
C3052	A-2	Ⓒ
C3053	B-2	Ⓒ
C3054	B-2	Ⓒ
C3055	B-2	Ⓒ
C3056	C-3	Ⓒ
C3057	B-2	Ⓒ
C3058	B-7	Ⓕ
C3060	A-6	Ⓒ
C3061	B-5	Ⓒ
C3062	A-6	Ⓒ
C3063	A-6	Ⓒ
C3064	A-6	Ⓒ
C3065	B-6	Ⓒ
C3066	B-6	Ⓒ
C3068	B-5	Ⓒ
C3070	A-5	Ⓒ
C3071	A-6	Ⓒ
C3073	A-4	Ⓒ
C3075	A-4	Ⓕ
C3076	B-5	Ⓕ
C3077	C-6	Ⓕ
C3078	B-5	Ⓒ
C3080	C-6	Ⓕ
C3081	C-6	Ⓕ
C3083	C-7	Ⓕ
C3084	C-7	Ⓕ
C3085	C-3	Ⓒ
C3086	C-4	Ⓒ
C3087	C-5	Ⓕ
C3110	B-4	Ⓒ
C3111	B-5	Ⓒ
C3112	B-5	Ⓒ
C3113	B-5	Ⓒ
C3114	B-5	Ⓒ
C3115	B-5	Ⓒ
C3117	B-5	Ⓒ
C3118	B-5	Ⓒ
C3120	B-6	Ⓒ
C3121	B-6	Ⓒ
C3501	E-3	Ⓕ
C3502	D-3	Ⓕ
C3503	D-6	Ⓒ
C3504	D-4	Ⓕ
C3505	C-6	Ⓒ
C3507	D-3	Ⓕ
C3512	D-6	Ⓒ
C3513	D-3	Ⓕ
C3515	D-6	Ⓒ
C3516	E-6	Ⓒ
C3517	E-3	Ⓕ
C3518	E-6	Ⓒ
C3519	E-4	Ⓕ
C3520	D-4	Ⓕ
C3521	E-4	Ⓕ
C3522	E-4	Ⓕ
C3523	E-4	Ⓕ
C3524	E-4	Ⓕ
C3525	E-6	Ⓒ
C3528	E-4	Ⓕ
C3529	E-4	Ⓕ
C3530	E-5	Ⓒ
C3531	E-5	Ⓒ
C3532	E-4	Ⓕ
C3533	D-4	Ⓕ
C3534	E-4	Ⓕ
C3535	E-5	Ⓒ
C3536	E-4	Ⓕ
C3541	E-6	Ⓒ
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C3543	D-5	Ⓕ
C3544	D-5	Ⓕ
C3545	C-5	Ⓕ
C3546	D-5	Ⓕ
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C4002	B-8	Ⓕ
C4003	B-2	Ⓒ
C4004	B-8	Ⓕ
C4005	B-8	Ⓕ
C4006	B-8	Ⓕ
C4007	B-8	Ⓕ
C4008	B-8	Ⓕ
C4009	B-1	Ⓒ
C4010	B-8	Ⓕ
C4011	B-8	Ⓕ
C4012	C-1	Ⓒ
C4013	C-1	Ⓒ
C4014	C-8	Ⓕ
C4015	C-8	Ⓕ
C4016	C-8	Ⓕ
C4017	C-2	Ⓒ
C4018	C-1	Ⓒ
C4020	C-8	Ⓕ
C4023	B-8	Ⓕ
C4501	A-2	Ⓒ
C4502	B-2	Ⓒ
C4503	A-1	Ⓒ

ADDRESS INFORMATION Ⓒ... COMPONENT SIDE Ⓕ... FOIL SIDE

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MAIN C.B.A. Section

MAIN C.B.A.

C4504	A-1	Ⓒ
C4505	A-2	Ⓒ
C4506	A-8	Ⓕ
C4507	A-2	Ⓒ
C4508	A-1	Ⓒ
C4509	A-2	Ⓒ
C4510	A-9	Ⓕ
C4511	A-2	Ⓒ
C4512	A-2	Ⓒ
C4514	A-1	Ⓒ
C4515	A-8	Ⓕ
C4516	A-9	Ⓕ
C4517	A-2	Ⓒ
C4518	A-8	Ⓕ
C4519	A-2	Ⓒ
C4520	A-2	Ⓒ
C4521	B-1	Ⓒ
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C4523	A-2	Ⓒ
C4526	A-1	Ⓒ
C4532	B-1	Ⓒ
C4533	B-1	Ⓒ
C4534	B-2	Ⓒ
C4535	B-1	Ⓒ
C4539	B-2	Ⓒ
C4540	B-1	Ⓒ
C4541	B-1	Ⓒ
C4544	B-1	Ⓒ
C4545	B-1	Ⓒ
C4546	B-1	Ⓒ
C4550	B-1	Ⓒ
C4551	A-8	Ⓕ
C4554	A-9	Ⓕ
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C5002	B-4	Ⓒ
C5003	B-6	Ⓕ
C5004	B-6	Ⓕ
C5005	B-7	Ⓕ
C5006	B-6	Ⓕ
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C5012	B-6	Ⓕ
C5013	B-3	Ⓒ
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C5017	B-7	Ⓕ
C5018	B-7	Ⓕ
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C5024	A-3	Ⓒ
C5025	A-3	Ⓒ
C5026	A-4	Ⓒ
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C5042	B-3	Ⓒ
C5044	B-7	Ⓕ
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C5502	B-4	Ⓕ
C5503	B-5	Ⓕ
C5504	C-4	Ⓒ
C5505	B-4	Ⓒ
C5506	B-5	Ⓕ
C5507	B-4	Ⓒ
C5508	C-4	Ⓕ
C5509	C-5	Ⓕ
C5510	C-4	Ⓕ

C5511	C-5	Ⓒ
C5512	B-5	Ⓒ
C5513	C-4	Ⓕ
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C5516	C-4	Ⓕ
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C5519	C-4	Ⓕ
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C5521	C-5	Ⓒ
C5522	C-5	Ⓕ
C5523	B-4	Ⓕ
C5524	B-4	Ⓕ
C5525	B-4	Ⓕ
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C5527	B-4	Ⓕ
C5528	B-4	Ⓕ
C5529	B-4	Ⓕ
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C5531	C-4	Ⓕ
C5533	C-4	Ⓕ
C5534	C-5	Ⓒ
C5535	C-5	Ⓒ
C5540	C-5	Ⓒ
C5542	B-5	Ⓒ
C5543	B-6	Ⓒ
C5544	B-6	Ⓒ
C5545	C-6	Ⓒ
C5546	B-5	Ⓒ
C5547	B-6	Ⓒ
C5548	C-6	Ⓒ
C5549	B-6	Ⓒ
C5550	C-6	Ⓒ
C5552	C-5	Ⓒ
C5553	C-4	Ⓕ
C5555	C-6	Ⓒ
C5556	C-6	Ⓒ
C5557	C-5	Ⓒ
C5573	B-3	Ⓒ
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C6002	F-8	Ⓒ
C6003	F-9	Ⓒ
C6004	D-8	Ⓒ
C6006	E-9	Ⓒ
C6007	D-1	Ⓕ
C6012	F-9	Ⓒ
C6013	D-3	Ⓕ
C6014	F-2	Ⓕ
C6015	D-7	Ⓒ
C6016	E-9	Ⓒ
C6018	F-1	Ⓕ
C6020	E-9	Ⓒ
C6022	D-2	Ⓕ
C6023	D-8	Ⓒ
C6025	E-3	Ⓕ
C6026	D-7	Ⓒ
C6027	F-8	Ⓒ
C6028	D-7	Ⓒ
C6029	D-9	Ⓒ
C6030	F-8	Ⓒ
C6031	E-8	Ⓒ
C6032	D-8	Ⓒ
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C6034	E-7	Ⓒ
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C6036	E-7	Ⓒ
C6038	E-2	Ⓕ
C6040	D-8	Ⓒ
C6060	E-1	Ⓕ
C6100	D-8	Ⓒ
C6201	D-8	Ⓒ
C6203	E-7	Ⓒ
C6204	E-2	Ⓕ
C6205	E-3	Ⓕ
C6206	E-7	Ⓒ
C6207	F-8	Ⓒ
C6208	E-3	Ⓕ
C6209	E-7	Ⓒ
C6210	E-2	Ⓒ
C6215	E-7	Ⓒ
C6216	E-7	Ⓒ
C6217	E-2	Ⓕ

Resistor		
R201	E-7	Ⓕ
R202	E-8	Ⓕ
R203	E-7	Ⓕ
R204	D-7	Ⓕ
R205	E-7	Ⓕ
R206	E-7	Ⓕ
R207	E-2	Ⓒ
R208	F-7	Ⓕ
R209	E-7	Ⓕ
R210	D-7	Ⓕ
R212	E-3	Ⓒ
R213	F-8	Ⓕ
R214	E-3	Ⓒ
R216	E-3	Ⓒ
R217	E-6	Ⓕ
R219	D-3	Ⓒ
R221	E-6	Ⓕ
R222	F-3	Ⓒ
R223	E-2	Ⓒ
R224	E-3	Ⓒ
R225	D-3	Ⓒ
R226	F-3	Ⓒ
R227	E-3	Ⓒ
R228	D-3	Ⓒ
R230	E-3	Ⓒ
R231	E-3	Ⓒ
R232	E-3	Ⓒ
R233	E-3	Ⓒ
R237	E-3	Ⓒ
R238	D-7	Ⓕ
R239	F-4	Ⓒ
R241	E-7	Ⓕ
R242	F-3	Ⓒ
R243	F-3	Ⓒ
R245	E-6	Ⓕ
R246	D-7	Ⓕ
R247	E-6	Ⓕ
R301	E-6	Ⓕ
R302	E-3	Ⓒ
R303	E-4	Ⓒ
R304	D-4	Ⓒ
R305	D-4	Ⓒ
R306	C-4	Ⓒ
R307	C-4	Ⓒ
R308	E-6	Ⓕ
R309	E-6	Ⓕ
R310	D-6	Ⓕ
R311	F-5	Ⓕ
R312	E-6	Ⓕ
R313	D-3	Ⓒ
R314	D-4	Ⓒ
R315	D-4	Ⓒ
R316	E-5	Ⓒ
R317	D-3	Ⓒ
R318	D-3	Ⓒ
R319	D-3	Ⓒ
R320	D-3	Ⓒ
R321	D-5	Ⓒ
R322	E-5	Ⓒ
R323	E-5	Ⓒ
R324	C-4	Ⓒ
R325	D-5	Ⓒ
R326	D-3	Ⓒ
R344	E-5	Ⓕ
R359	D-4	Ⓒ
R360	C-4	Ⓒ
R361	D-5	Ⓕ
R364	C-4	Ⓒ
R367	D-5	Ⓕ
R368	D-5	Ⓕ
R369	D-4	Ⓒ
R370	C-6	Ⓕ
R371	D-4	Ⓒ
R372	D-4	Ⓒ
R373	C-6	Ⓕ
R374	C-7	Ⓕ
R378	D-3	Ⓒ
R379	F-5	Ⓕ
R394	D-3	Ⓒ
R396	C-4	Ⓒ
R398	D-4	Ⓒ
R407	F-4	Ⓒ

R408	F-5	Ⓕ
R409	C-4	Ⓒ
R701	D-8	Ⓕ
R702	D-8	Ⓕ
R703	D-7	Ⓕ
R704	D-7	Ⓕ
R705	D-8	Ⓕ
R706	D-8	Ⓕ
R707	D-1	Ⓒ
R708	D-1	Ⓒ
R709	D-1	Ⓒ
R711	C-2	Ⓒ
R716	D-2	Ⓒ
R718	D-2	Ⓒ
R720	C-7	Ⓕ
R721	C-7	Ⓕ
R722	C-2	Ⓒ
R723	C-2	Ⓒ
R726	C-2	Ⓒ
R727	C-7	Ⓕ
R728	C-3	Ⓒ
R729	C-7	Ⓕ
R730	C-7	Ⓕ
R731	C-7	Ⓕ
R732	D-7	Ⓕ
R733	D-7	Ⓕ
R734	D-7	Ⓕ
R735	C-2	Ⓒ
R736	C-2	Ⓒ
R737	D-2	Ⓒ
R738	C-7	Ⓕ
R740	D-7	Ⓕ
R741	D-7	Ⓕ
R761	C-2	Ⓒ
R776	D-7	Ⓕ
R1001	B-3	Ⓕ
R1002	B-2	Ⓕ
R1003	C-3	Ⓕ
R1004	C-3	Ⓕ
R1005	A-2	Ⓕ
R1006	A-2	Ⓕ
R1007	A-2	Ⓕ
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R1010	C-2	Ⓕ
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R1013	A-3	Ⓕ
R1014	A-3	Ⓕ
R1015	A-3	Ⓕ
R1016	A-7	Ⓒ
R1017	B-3	Ⓕ
R1018	B-3	Ⓕ
R1019	B-3	Ⓕ
R1020	B-3	Ⓕ
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R1026	C-3	Ⓕ
R1027	C-3	Ⓕ
R1035	B-2	Ⓕ
R1038	B-2	Ⓕ
R1039	A-2	Ⓕ
R1040	B-2	Ⓕ
R1043	B-2	Ⓕ
R1051	B-6	Ⓒ
R1052	B-6	Ⓒ
R1057	B-2	Ⓕ
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R1072	B-2	Ⓕ
R1073	B-3	Ⓕ
R1085	B-7	Ⓒ
R1086	B-7	Ⓒ
R1087	A-7	Ⓒ
R1089	B-2	Ⓕ

R2001	E-8	Ⓕ
R2002	E-8	Ⓕ
R2003	E-8	Ⓕ
R2004	E-8	Ⓕ
R2005	E-8	Ⓕ
R2006	E-8	Ⓕ
R2007	E-9	Ⓕ
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R2015	F-1	Ⓒ
R2016	F-1	Ⓒ
R2017	F-1	Ⓒ
R2018	F-1	Ⓒ
R2019	F-8	Ⓕ
R2020	F-8	Ⓕ
R2021	E-2	Ⓒ
R2022	F-8	Ⓕ
R2040	E-9	Ⓕ
R2041	E-9	Ⓕ
R2042	E-9	Ⓕ
R3001	A-4	Ⓕ
R3002	A-4	Ⓕ
R3003	A-5	Ⓒ
R3004	A-5	Ⓕ
R3005	A-5	Ⓕ
R3006	B-5	Ⓕ
R3007	B-5	Ⓕ
R3008	A-4	Ⓕ
R3009	B-5	Ⓕ
R3013	B-5	Ⓕ
R3014	B-4	Ⓕ
R3016	A-5	Ⓕ
R3017	A-5	Ⓕ
R3019	A-5	Ⓒ
R3020	A-5	Ⓒ
R3021	A-5	Ⓒ
R3022	A-5	Ⓒ
R3023	B-5	Ⓒ
R3024	A-5	Ⓒ
R3025	A-4	Ⓒ
R3026	A-5	Ⓒ
R3028	A-4	Ⓕ
R3029	A-4	Ⓕ
R3030	C-2	Ⓒ
R3031	C-3	Ⓒ
R3033	B-7	Ⓕ
R3034	B-7	Ⓕ
R3035	B-7	Ⓕ
R3036	C-2	Ⓒ
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R3038	B-7	Ⓕ
R3039	B-7	Ⓕ
R3040	B-7	Ⓕ
R3041	B-2	Ⓒ
R3042	B-2	Ⓒ
R3043	B-2	Ⓒ
R3044	B-2	Ⓒ
R3045	B-7	Ⓕ
R3046	B-4	Ⓕ
R3047	B-7	Ⓕ
R3048	B-7	Ⓕ
R3049	C-2	Ⓒ
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R3071	C-6	Ⓕ
R3073	C-7	Ⓕ
R3074	C-7	Ⓕ
R3075	C-7	Ⓕ

R3076	C-3	Ⓒ
R3077	C-4	Ⓒ
R3078	C-5	Ⓕ
R3079	C-6	Ⓕ
R3080	C-6	Ⓕ
R3081	C-6	Ⓕ
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R3088	C-6	Ⓕ
R3090	C-6	Ⓕ
R3091	C-6	Ⓕ
R3094	A-4	Ⓒ
R3095	B-5	Ⓒ
R3096	C-6	Ⓕ
R3097	A-5	Ⓕ
R3110	B-5	Ⓒ
R3111	B-5	Ⓒ
R3112	B-5	Ⓒ
R3113	B-5	Ⓒ
R3114	B-5	Ⓒ
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R3117	B-5	Ⓒ
R3118	B-5	Ⓒ
R3119	B-5	Ⓒ
R3120	B-5	Ⓒ
R3122	B-5	Ⓒ
R3123	B-2	Ⓒ
R3130	B-6	Ⓒ
R3131	B-6	Ⓒ
R3132	B-6	Ⓒ
R3133	C-4	Ⓕ
R3134	C-4	Ⓕ
R3135	C-4	Ⓕ
R3136	B-6	Ⓒ
R3501	D-3	Ⓕ
R3502	D-5	Ⓒ
R3503	D-5	Ⓒ
R3504	D-3	Ⓕ
R3505	E-6	Ⓒ
R3506	F-5	Ⓒ
R3507	E-4	Ⓕ
R3508	D-4	Ⓕ
R3509	E-3	Ⓕ
R3510	E-4	Ⓕ
R3511	E-3	Ⓕ
R3512	E-6	Ⓒ
R3513	E-6	Ⓒ
R3514	D-4	Ⓕ
R3515	D-3	Ⓕ
R3516	D-4	Ⓕ
R3517	E-4	Ⓕ
R3518	E-4	Ⓕ
R3520	E-4	Ⓕ
R3521	E-6	Ⓒ
R3522	D-3	Ⓕ
R3523	E-6	Ⓒ
R3524	E-6	Ⓒ
R3525	E-5	Ⓒ
R3526	D-5	Ⓒ
R3527	E-4	Ⓕ
R3528	E-4	Ⓕ
R3529	E-4	Ⓕ
R3530	E-4	Ⓕ
R3531	E-4	Ⓕ
R3532	E-4	Ⓕ
R3533	E-4	Ⓕ
R3534	E-4	Ⓕ
R3535	E-4	Ⓕ
R3536	E-4	Ⓕ
R3537	D-4	Ⓕ
R3538	D-4	Ⓕ
R3539	C-4	Ⓕ
R3540	C-4	Ⓕ
R3541	E-4	Ⓕ
R3542	E-4	Ⓕ
R3543	E-5	Ⓒ
R3544	E-5	Ⓒ
R3545	E-5	Ⓒ
R3546	D-4	Ⓕ

R3547	E-4	Ⓕ
R3548	E-4	Ⓕ
R3549	E-3	Ⓕ
R3550	E-4	Ⓕ
R3551	D-5	Ⓒ
R3553	D-3	Ⓕ
R3580	E-6	Ⓒ
R3581	F-5	Ⓒ
R4001	C-8	Ⓕ
R4002	B-8	Ⓕ
R4003	B-8	Ⓕ
R4004	B-8	Ⓕ
R4005	B-8	Ⓕ
R4006	B-8	Ⓕ
R4007	B-8	Ⓕ
R4008	C-1	Ⓒ
R4009	B-8	Ⓕ
R4010	C-8	Ⓕ
R4011	B-8	Ⓕ
R4012	B-8	Ⓕ
R4015	B-8	Ⓕ
R4016	B-8	Ⓕ
R4018	C-8	Ⓕ
R4019	B-1	Ⓒ
R4020	B-1	Ⓒ
R4021	C-1	Ⓒ
R4022	C-1	Ⓒ
R4023	C-8	Ⓕ
R4024	C-8	Ⓕ
R4029	B-1	Ⓒ
R4501	A-2	Ⓒ
R4506	B-2	Ⓒ
R4511	A-1	Ⓒ
R4512	A-1	Ⓒ
R4513	A-2	Ⓒ
R4514	A-1	Ⓒ
R4515	A-1	Ⓒ
R4516	A-1	Ⓒ
R4517	A-2	Ⓒ
R4521	B-1	Ⓒ
R4526	B-1	Ⓒ
R4527	B-1	Ⓒ
R4528	B-2	Ⓒ
R4529	B-1	Ⓒ
R4530	B-1	Ⓒ
R4531	B-1	Ⓒ
R4536	B-2	Ⓒ
R4537	A-8	Ⓕ
R4538	B-2	Ⓒ
R4541	B-2	Ⓒ
R4542	B-1	Ⓒ
R4543	B-2	Ⓒ
R4544	B-1	Ⓒ
R4545	B-1	Ⓒ
R4546	B-2	Ⓒ
R4567	A-1	Ⓒ
R4568	A-2	Ⓒ
R5001	B-3	Ⓒ
R5002	A-3	Ⓒ
R5003	A-4	Ⓒ
R5004	A-3	Ⓒ
R5005	B-4	Ⓒ
R5006	A-3	Ⓒ
R5007	B-3	Ⓒ
R5008	B-6	Ⓕ
R5009	B-6	Ⓕ
R5010	B-3	Ⓒ
R5011	B-3	Ⓒ
R5012	B-6	Ⓕ
R5013	A-4	Ⓒ
R5014	A-4	Ⓒ
R5015	A-7	Ⓕ
R5017	B-6	Ⓕ
R5018	A-7	Ⓕ
R5020	B-3	Ⓒ
R5502	C-2	Ⓒ
R5503	B-4	Ⓒ
R5504	C-5	Ⓕ
R5505	C-5	Ⓕ
R5506	C-5	Ⓕ
R5507	C-5	Ⓒ
R5508	C-4	Ⓕ
R5509	C-5	Ⓒ
R5511	B-4	Ⓕ

R5512	B-4	Ⓕ
R5513	B-4	Ⓕ
R5514	B-4	Ⓕ
R5515	C-5	Ⓕ
R5516	B-4	Ⓕ
R5517	B-5	Ⓕ
R5518	B-5	Ⓕ
R5519	C-5	Ⓒ
R5520	B-5	Ⓒ
R5521	B-5	Ⓒ
R5522	B-6	Ⓒ
R5524	B-4	Ⓕ
R5525	C-5	Ⓒ
R5526	C-4	Ⓕ
R5527	C-6	Ⓒ
R5528	C-3	Ⓕ
R5529	C-4	Ⓕ
R5530	C-5	Ⓒ
R5531	C-4	Ⓕ
R5532	C-5	Ⓒ
R5533	C-4	Ⓕ
R5534	C-4	Ⓕ
R5535	C-4	Ⓕ
R5536	C-4	Ⓕ
R5537	C-4	Ⓕ
R5538	C-5	Ⓒ
R5539	C-5	Ⓒ
R5540	C-5	Ⓒ
R5541	C-5	Ⓕ
R5543	C-4	Ⓕ
R5548	C-5	Ⓕ
R5549	C-5	Ⓕ
R5550	C-5	Ⓕ
R5551	C-5	Ⓕ
R6001	F-3	Ⓕ
R6002	E-7	Ⓒ
R6003	F-7	Ⓒ
R6004	F-8	Ⓒ
R6005	D-2	Ⓕ
R6007	D-1	Ⓕ
R6008	D-1	Ⓕ
R6009	E-8	Ⓒ
R6010	E-3	Ⓕ
R6011	F-4	Ⓕ
R6012	F-9	Ⓒ
R6013	E-8	Ⓒ
R6014	E-8	Ⓒ
R6015	E-8	Ⓒ
R6016	E-8	Ⓒ
R6017	D-1	Ⓕ
R6018	E-7	Ⓒ
R6019	F-8	Ⓒ
R6020	E-8	Ⓒ
R6021	F-7	Ⓒ
R6022	F-8	Ⓒ
R6023	E-8	Ⓒ
R6024	F-8	Ⓒ
R6025	E-8	Ⓒ
R6026	E-8	Ⓒ
R6027	F-3	Ⓕ
R6028	D-7	Ⓒ
R6029	E-3	Ⓕ
R6030	D-7	Ⓒ
R6031	D-7	Ⓒ
R6032	E-8	Ⓒ
R6033	F-8	Ⓒ
R6034	D-2	Ⓕ
R6035	D-2	Ⓕ
R6036	D-8	Ⓒ
R6037	F-8	Ⓒ
R6038	D-8	Ⓒ
R6039	E-8	Ⓒ
R6040	E-1	Ⓕ
R6041	E-3	Ⓕ
R6042	F-2	Ⓕ
R6043	E-7	Ⓒ
R6044	E-3	Ⓕ
R6045	E-3	Ⓕ
R6046	F-8	Ⓒ
R6047	E-3	Ⓕ
R6048	E-8	Ⓒ
R6049	D-8	Ⓒ
R6050	D-7	Ⓒ
R6051	D-2	Ⓕ

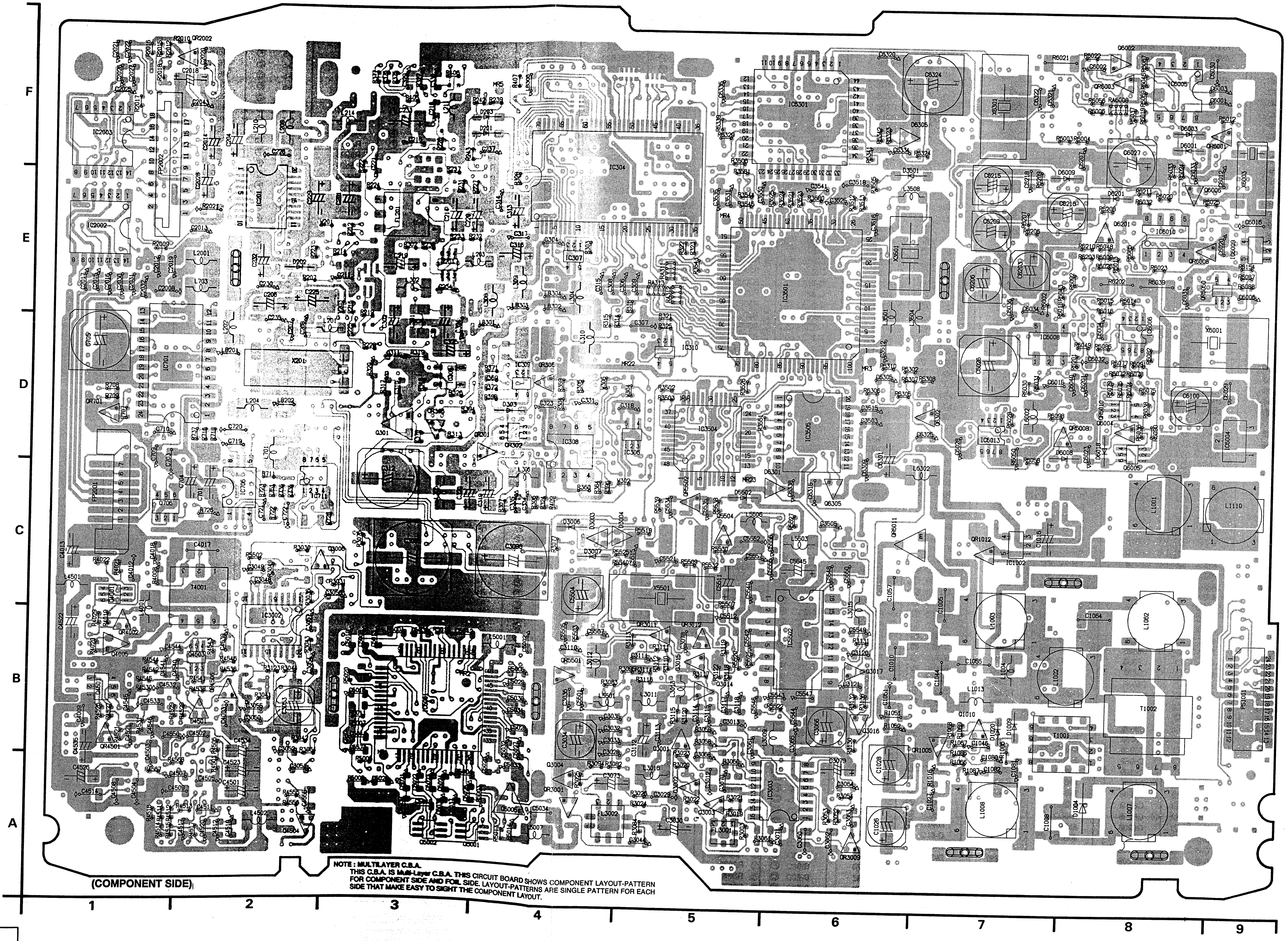
R6052	D-2	Ⓕ
R6053	D-2	Ⓕ
R6054	D-2	Ⓕ
R6055	E-3	Ⓕ
R6056	F-8	Ⓒ
R6057	F-2	Ⓕ
R6058	D-7	Ⓒ
R6059	F-1	Ⓕ
R6060	F-2	Ⓕ
R6061	D-2	Ⓕ
R6062	D-2	Ⓕ
R6063	E-1	Ⓕ
R6064	F-2	Ⓕ
R6065	F-2	Ⓕ
R6066	E-1	Ⓕ
R6067	F-8	Ⓒ
R6068	F-1	Ⓕ
R6069	F-8	Ⓒ
R6070	D-2	Ⓕ
R6071	D-2	Ⓕ
R6072	D-8	Ⓒ
R6073	D-2	Ⓕ
R6074	D-8	Ⓒ
R6075	D-8	Ⓒ
R6076	D-8	Ⓒ
R6077	D-8	Ⓒ
R6078	D-8	Ⓒ
R6079	D-8	Ⓒ
R6080	D-2	Ⓕ
R6081	E-1	Ⓕ
R6082	D-8	Ⓒ
R6083	E-1	Ⓕ
R6084	E-1	Ⓕ
R6085	E-8	Ⓒ
R6086	D-8	Ⓒ
R6087	E-9	Ⓒ
R6088	E-9	Ⓒ
R6089	F-2	Ⓕ
R6090	D-8	Ⓒ
R6091	D-8	Ⓒ
R6092	E-8	Ⓒ
R6093	D-2	Ⓕ
R6094	D-2	Ⓕ
R6095	F-2	Ⓕ
R6096	D-2	Ⓕ
R6097	D-1	Ⓕ
R6098	D-7	Ⓒ
R6099	D-2	Ⓕ
R6144	F-3	Ⓕ
R6145	F-3	Ⓕ
R6154	E-9	Ⓒ
R6201	D-8	Ⓒ
R6202	E-8	Ⓒ
R6203	E-8	Ⓒ
R6204	F-2	Ⓕ
R6205	F-2	Ⓕ
R6206	E-7	Ⓒ
R6207	E-7	Ⓒ
R6208	E-8	Ⓒ
R6209	E-7	Ⓒ
R6210	E-8	Ⓒ
R6211	E-8	Ⓒ
R6212	E-2	Ⓕ
R6213	E-2	Ⓕ
R6214	F-3	Ⓕ
R6215	E-2	Ⓕ
R6218	E-7	Ⓒ
R6313	C-4	Ⓕ
Resistor Array		
RA301	D-6	Ⓕ
RA302	E-6	Ⓕ
RA304	F-4	Ⓒ
RA305	F-4	Ⓒ
RA306	F-5	Ⓒ
RA311	E-5	Ⓒ
RA312	E-5	Ⓒ
RA313	E-5	Ⓒ
RA6001	F-2	Ⓕ
RA6002	F-2	Ⓕ
RA6003	F-2	Ⓕ
RA6004	F-2	Ⓕ
RA6005	F-2	Ⓕ
RA6006	E-3	Ⓕ

RA6007	E-2	Ⓕ
RA6008	F-8	Ⓒ
Wire		
W201	E-2	Ⓒ
W203	E-3	Ⓒ
W204	E-7	Ⓕ
W303	C-5	Ⓒ
W305	D-4	Ⓒ
W307	D-5	Ⓒ
W308	C-5	Ⓒ
W310	F-3	Ⓒ
W311	E-6	Ⓕ
W4001	C-8	Ⓕ

3-26. MAIN [Lens Drive, Process, Sensor, Power, System Control&Servo,TBC,Sub Servo, Audio,Luminance/Chrominance,VITC Section] C.B.A. (VEP023441A) ; NV-SX50

MAIN C.B.A.

COMPONENT SIDE



NOTE : MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

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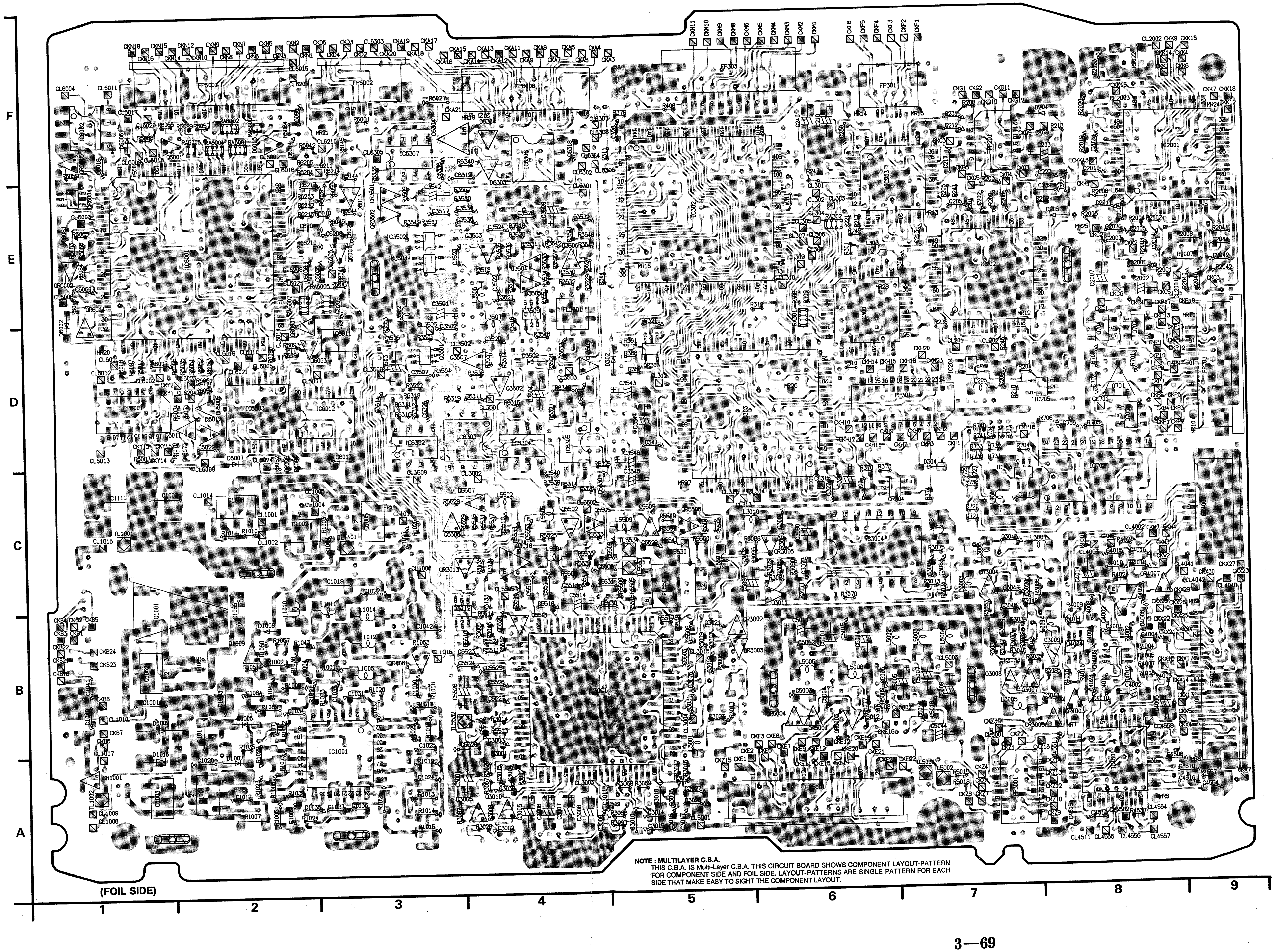
MAIN C.B.A.

FOIL SIDE


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
(FOIL SIDE)
IC6001
IC6003
IC6012
IC6011
IC6302
IC6303
IC6304
IC6307
IC3502
IC3503
IC302
IC301
IC303
IC202
IC203
IC2001
IC205
IC702
IC703
IC3001
IC3004
IC1001
FP6001
FP6002
FP6006
FP303
FP301
FP401
FP5001
FP6003
FP3001
FL3501
FL5501
Q1001
Q1002
Q1003
Q1004
Q1005
Q1006
Q1009
TL1001
TL1401
TL5001
C1111
C1002
C1001
C1006
D1002
D1015

NOTE : MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

MAIN C.B.A. ADDRESS INFORMATION; NV-SX50

MAIN C.B.A.

Integrated Circuit

IC201	E-2	Ⓒ
IC202	E-7	Ⓕ
IC203	E-7	Ⓕ
IC204	D-7	Ⓕ
IC205	D-8	Ⓕ
IC301	E-6	Ⓕ
IC302	E-5	Ⓕ
IC303	D-5	Ⓕ
IC304	F-4	Ⓒ
IC305	D-3	Ⓒ
IC306	D-5	Ⓒ
IC307	E-4	Ⓒ
IC308	D-4	Ⓒ
IC309	D-4	Ⓒ
IC310	D-5	Ⓒ
IC701	D-1	Ⓒ
IC702	C-8	Ⓕ
IC703	C-7	Ⓕ
IC706	C-2	Ⓒ
IC711	C-2	Ⓒ
IC1001	B-3	Ⓕ
IC1002	C-7	Ⓒ
IC2001	F-8	Ⓕ
IC2002	E-1	Ⓒ
IC2003	F-1	Ⓒ
IC3001	B-4	Ⓕ
IC3002	B-2	Ⓒ
IC3003	A-6	Ⓒ
IC3004	C-6	Ⓕ
IC3501	E-6	Ⓒ
IC3502	E-3	Ⓕ
IC3503	E-3	Ⓕ
IC3504	D-5	Ⓒ
IC3505	D-6	Ⓒ
IC4501	A-8	Ⓕ
IC5001	B-3	Ⓒ
IC5502	B-6	Ⓒ
IC6001	E-2	Ⓕ
IC6002	F-1	Ⓕ
IC6003	D-2	Ⓕ
IC6004	D-9	Ⓒ
IC6005	F-8	Ⓒ
IC6006	D-8	Ⓒ
IC6008	D-7	Ⓒ
IC6009	E-9	Ⓒ
IC6010	E-8	Ⓒ
IC6011	D-3	Ⓕ
IC6012	D-3	Ⓕ
IC6013	D-7	Ⓒ
IC6301	F-6	Ⓒ
IC6302	D-3	Ⓕ
IC6303	D-4	Ⓕ
IC6304	D-4	Ⓕ
IC6305	D-4	Ⓕ
IC6306	F-4	Ⓕ
IC6307	F-3	Ⓕ

Transistor

Q201	E-3	Ⓒ
Q301	D-3	Ⓒ
Q701	D-8	Ⓕ
Q703	D-8	Ⓕ
Q704	D-8	Ⓕ
Q705	D-8	Ⓕ
Q706	C-1	Ⓒ
Q1001	C-1	Ⓕ
Q1002	C-2	Ⓕ
Q1003	A-1	Ⓕ
Q1004	A-2	Ⓕ
Q1005	C-3	Ⓕ
Q1006	C-2	Ⓕ
Q1009	B-2	Ⓕ
Q1010	B-7	Ⓒ
Q1062	B-1	Ⓕ
Q3001	B-5	Ⓒ
Q3002	A-5	Ⓒ
Q3003	A-5	Ⓒ
Q3004	A-4	Ⓒ
Q3005	A-4	Ⓕ
Q3006	C-2	Ⓒ
Q3007	B-7	Ⓕ
Q3008	B-7	Ⓕ
Q3009	B-8	Ⓕ
Q3010	A-4	Ⓕ
Q3011	C-6	Ⓕ
Q3012	C-3	Ⓕ
Q3014	B-5	Ⓒ
Q3015	B-5	Ⓒ
Q3016	B-6	Ⓒ
Q3017	B-6	Ⓒ
Q3018	C-4	Ⓕ
Q3501	D-3	Ⓕ
Q3502	D-4	Ⓕ
Q3503	E-4	Ⓕ
Q3504	E-4	Ⓕ
Q3505	E-4	Ⓕ
Q3506	E-4	Ⓕ
Q3507	D-4	Ⓕ
Q3509	E-4	Ⓕ
Q4001	C-1	Ⓒ
Q4002	B-8	Ⓕ
Q4004	B-8	Ⓕ
Q4005	B-1	Ⓒ
Q4501	B-1	Ⓒ
Q4503	B-2	Ⓒ
Q4504	A-2	Ⓒ
Q5001	A-4	Ⓒ
Q5002	A-3	Ⓒ
Q5005	A-4	Ⓒ
Q5501	B-4	Ⓕ
Q5502	C-4	Ⓕ
Q5504	C-5	Ⓒ
Q5505	C-4	Ⓕ
Q5506	C-3	Ⓕ
Q5507	C-4	Ⓕ
Q5509	C-5	Ⓕ
Q6001	F-2	Ⓕ
Q6002	F-8	Ⓒ
Q6003	D-3	Ⓕ
Q6004	D-8	Ⓒ
Q6005	D-8	Ⓒ
Q6006	E-8	Ⓒ
Q6007	E-3	Ⓕ
Q6201	E-8	Ⓒ
Q6302	D-7	Ⓒ
Q6304	F-3	Ⓕ
Q6305	C-6	Ⓒ

Transistor & Resistor

QR301	D-4	Ⓒ
QR302	D-4	Ⓒ
QR303	D-5	Ⓕ
QR304	C-7	Ⓕ
QR305	D-4	Ⓒ
QR306	D-3	Ⓒ
QR701	D-1	Ⓒ
QR1001	A-1	Ⓕ
QR1005	B-7	Ⓒ
QR1012	C-7	Ⓒ
QR1061	B-3	Ⓕ
QR2002	F-2	Ⓒ
QR3001	A-4	Ⓒ
QR3002	B-5	Ⓕ
QR3003	B-5	Ⓕ
QR3004	C-7	Ⓕ
QR3005	B-8	Ⓕ
QR3006	C-6	Ⓕ
QR3009	A-6	Ⓒ
QR3011	B-5	Ⓒ
QR3012	B-5	Ⓒ
QR3013	C-3	Ⓕ
QR3501	E-3	Ⓕ
QR3502	E-3	Ⓕ
QR3503	D-4	Ⓕ
QR4002	B-1	Ⓒ
QR4003	B-8	Ⓕ
QR4007	C-8	Ⓕ
QR4009	B-8	Ⓕ
QR4501	B-1	Ⓒ
QR4506	B-2	Ⓒ
QR5001	B-6	Ⓕ
QR5003	B-6	Ⓕ
QR5004	B-6	Ⓕ
QR5501	B-4	Ⓒ
QR5502	C-5	Ⓒ
QR5506	C-5	Ⓕ
QR6001	F-9	Ⓒ
QR6002	E-1	Ⓕ
QR6003	F-8	Ⓒ
QR6004	E-1	Ⓕ
QR6005	D-2	Ⓕ
QR6006	E-8	Ⓒ
QR6007	D-2	Ⓕ
QR6008	D-8	Ⓒ
QR6010	D-8	Ⓒ
QR6011	C-6	Ⓒ
QR6014	E-1	Ⓕ
QR6015	F-1	Ⓕ
QR6050	E-9	Ⓒ

Diode

D201	F-4	Ⓒ
D202	E-2	Ⓒ
D203	F-4	Ⓒ
D204	F-8	Ⓕ
D205	E-8	Ⓕ
D302	D-5	Ⓕ
D303	D-4	Ⓒ
D304	C-7	Ⓕ
D1002	B-1	Ⓕ
D1004	A-8	Ⓒ
D1006	B-2	Ⓕ
D1007	A-2	Ⓕ
D1008	B-2	Ⓕ
D1009	B-7	Ⓒ
D1015	B-1	Ⓕ
D1020	B-7	Ⓒ
D3003	C-4	Ⓒ
D3004	C-4	Ⓒ
D3006	C-4	Ⓒ
D3007	C-4	Ⓒ
D3501	F-6	Ⓒ
D3502	D-4	Ⓕ
D4501	B-2	Ⓒ
D5502	C-5	Ⓒ
D6001	F-8	Ⓒ
D6002	E-1	Ⓕ
D6003	F-8	Ⓒ
D6006	F-1	Ⓕ
D6007	D-2	Ⓕ
D6008	D-8	Ⓒ
D6009	F-7	Ⓒ
D6011	D-2	Ⓕ
D6012	D-2	Ⓕ
D6013	E-3	Ⓕ
D6016	F-2	Ⓕ
D6018	D-8	Ⓒ
D6201	E-8	Ⓒ
D6301	C-6	Ⓒ
D6303	F-4	Ⓕ
D6304	F-4	Ⓕ
D6305	F-6	Ⓒ

Transformer

T1001	B-8	Ⓒ
T1002	B-8	Ⓒ
T4001	C-2	Ⓒ

Test Point

CL201	D-7	Ⓕ
CL202	D-7	Ⓕ
CL301	E-6	Ⓕ
CL302	E-6	Ⓕ
CL303	E-6	Ⓕ
CL304	E-6	Ⓕ
CL305	E-6	Ⓕ
CL306	E-6	Ⓕ
CL307	E-6	Ⓕ
CL308	E-6	Ⓕ
CL309	E-6	Ⓕ
CL310	E-6	Ⓕ
CL311	C-5	Ⓕ
CL312	D-5	Ⓕ
CL313	C-5	Ⓕ
CL314	C-6	Ⓕ
CL315	C-6	Ⓕ
CL701	D-8	Ⓕ
CL1001	C-2	Ⓕ
CL1002	C-2	Ⓕ
CL1004	C-2	Ⓕ
CL1005	C-2	Ⓕ
CL1006	C-3	Ⓕ
CL1007	B-1	Ⓕ
CL1008	A-1	Ⓕ
CL1009	A-1	Ⓕ
CL1010	B-1	Ⓕ
CL1011	C-3	Ⓕ
CL1014	C-2	Ⓕ
CL1015	C-1	Ⓕ
CL1016	B-3	Ⓕ
CL2001	E-9	Ⓕ
CL2002	F-8	Ⓕ
CL2003	F-8	Ⓕ
CL3001	B-7	Ⓕ
CL3002	C-4	Ⓕ
CL3003	A-4	Ⓕ
CL3004	B-5	Ⓕ
CL3015	B-5	Ⓕ
CL3501	D-4	Ⓕ
CL3502	D-3	Ⓕ
CL3503	D-4	Ⓕ
CL3505	D-3	Ⓕ
CL3508	D-3	Ⓕ
CL3509	C-3	Ⓕ
CL4002	C-8	Ⓕ
CL4003	C-8	Ⓕ
CL4040	C-9	Ⓕ
CL4041	C-9	Ⓕ
CL4042	C-9	Ⓕ
CL4502	A-8	Ⓕ
CL4511	A-8	Ⓕ
CL4554	A-8	Ⓕ
CL4555	A-8	Ⓕ
CL4556	A-8	Ⓕ
CL4557	A-8	Ⓕ
CL4558	B-8	Ⓕ
CL5001	A-5	Ⓕ
CL5002	B-6	Ⓕ
CL5003	B-7	Ⓕ
CL5502	C-4	Ⓕ
CL5505	C-4	Ⓕ
CL5530	C-5	Ⓕ
CL6001	D-1	Ⓕ
CL6002	D-1	Ⓕ
CL6003	E-1	Ⓕ
CL6004	F-1	Ⓕ
CL6005	D-2	Ⓕ
CL6006	E-1	Ⓕ
CL6007	D-3	Ⓕ
CL6008	D-2	Ⓕ
CL6009	F-1	Ⓕ
CL6010	D-2	Ⓕ
CL6011	F-1	Ⓕ
CL6012	D-1	Ⓕ
CL6013	D-1	Ⓕ
CL6014	D-2	Ⓕ
CL6015	F-2	Ⓕ
CL6016	F-2	Ⓕ
CL6017	F-1	Ⓕ
CL6018	F-1	Ⓕ
CL6019	D-2	Ⓕ
CL6020	F-1	Ⓕ
CL6021	D-2	Ⓕ
CL6022	F-2	Ⓕ
CL6023	D-2	Ⓕ
CL6024	D-2	Ⓕ
CL6025	E-2	Ⓕ
CL6204	D-2	Ⓕ
CL6206	E-3	Ⓕ
CL6207	F-2	Ⓕ
CL6208	E-2	Ⓕ
CL6210	F-3	Ⓕ
CL6211	F-3	Ⓕ
CL6301	E-4	Ⓕ
CL6302	F-4	Ⓕ
CL6303	F-3	Ⓕ
CL6304	F-4	Ⓕ
CL6305	F-3	Ⓕ
CL6306	F-4	Ⓕ
CL6307	F-4	Ⓕ
CL6308	F-4	Ⓕ
TL1001	C-1	Ⓕ
TL1002	A-1	Ⓕ
TL1401	C-3	Ⓕ
TL5001	A-7	Ⓕ
TL5002	A-7	Ⓕ
TL5532	B-3	Ⓕ
TL5533	C-5	Ⓕ
TL5534	C-5	Ⓕ
CKA3	F-5	Ⓕ
CKA4	F-4	Ⓕ
CKA5	F-4	Ⓕ
CKA6	F-4	Ⓕ
CKA7	F-4	Ⓕ
CKA8	F-4	Ⓕ
CKA9	F-4	Ⓕ
CKA11	F-4	Ⓕ
CKA12	F-4	Ⓕ
CKA13	F-4	Ⓕ
CKA14	F-4	Ⓕ
CKA15	F-4	Ⓕ
CKA16	F-3	Ⓕ
CKA17	F-3	Ⓕ
CKA18	F-3	Ⓕ
CKA19	F-3	Ⓕ
CKA20	F-3	Ⓕ
CKA21	F-3	Ⓕ
CKB1	B-1	Ⓕ
CKB2	B-1	Ⓕ
CKB3	B-1	Ⓕ
CKB4	B-1	Ⓕ
CKB5	B-1	Ⓕ
CKB6	B-1	Ⓕ
CKB7	B-1	Ⓕ
CKB8	B-1	Ⓕ
CKB18	B-1	Ⓕ
CKB21	B-1	Ⓕ
CKB22	B-1	Ⓕ
CKB23	B-1	Ⓕ
CKB24	B-1	Ⓕ
CKC1	E-8	Ⓕ
CKC2	E-8	Ⓕ
CKC3	E-9	Ⓕ
CKC4	E-8	Ⓕ
CKC5	E-8	Ⓕ
CKC6	E-8	Ⓕ
CKD2	F-3	Ⓕ
CKD3	F-3	Ⓕ
CKD4	F-3	Ⓕ
CKD5	F-3	Ⓕ
CKE1	A-5	Ⓕ
CKE2	A-5	Ⓕ
CKE3	B-6	Ⓕ
CKE5	A-6	Ⓕ
CKE6	B-6	Ⓕ
CKE7	A-6	Ⓕ
CKE9	B-6	Ⓕ
CKE10	B-6	Ⓕ
CKE11	A-6	Ⓕ
CKE12	B-6	Ⓕ
CKE15	A-6	Ⓕ
CKE16	B-6	Ⓕ
CKE17	A-6	Ⓕ
CKE19	B-6	Ⓕ
CKE20	A-6	Ⓕ
CKE21	B-6	Ⓕ
CKE22	A-7	Ⓕ
CKE23	A-6	Ⓕ
CKF1	F-7	Ⓕ
CKF2	F-7	Ⓕ
CKF3	F-7	Ⓕ
CKF4	F-6	Ⓕ
CKF5	F-6	Ⓕ
CKF6	F-6	Ⓕ
CKG1	F-7	Ⓕ
CKG2	F-7	Ⓕ
CKG3	F-7	Ⓕ
CKG4	E-7	Ⓕ
CKG5	E-7	Ⓕ
CKG6	E-7	Ⓕ
CKG7	E-7	Ⓕ
CKG8	F-8	Ⓕ
CKG9	F-8	Ⓕ
CKG10	F-7	Ⓕ
CKG11	F-7	Ⓕ
CKG12	F-7	Ⓕ
CKH1	D-7	Ⓕ
CKH2	D-7	Ⓕ
CKH3	D-7	Ⓕ
CKH6	D-7	Ⓕ
CKH7	D-7	Ⓕ
CKH9	D-6	Ⓕ
CKH10	D-6	Ⓕ
CKH11	D-6	Ⓕ
CKH12	D-6	Ⓕ
CKH14	D-6	Ⓕ
CKH15	D-6	Ⓕ
CKH18	D-7	Ⓕ
CKH20	D-7	Ⓕ
CKH23	D-7	Ⓕ
CKK1	E-8	Ⓕ
CKK2	E-8	Ⓕ
CKK4	F-9	Ⓕ
CKK6	F-9	Ⓕ
CKK7	F-9	Ⓕ
CKK9	F-9	Ⓕ
CKK11	F-8	Ⓕ
CKK12	F-9	Ⓕ
CKK13	F-8	Ⓕ
CKK14	F-8	Ⓕ
CKK15	F-8	Ⓕ
CKK16	F-9	Ⓕ
CKK18	F-9	Ⓕ
CKM1	F-6	Ⓕ
CKM2	F-6	Ⓕ
CKM3	F-6	Ⓕ
CKM4	F-6	Ⓕ
CKM5	F-6	Ⓕ
CKM6	F-6	Ⓕ
CKM8	F-5	Ⓕ
CKM9	F-5	Ⓕ
CKM10	F-5	Ⓕ
CKM11	F-5	Ⓕ
CKN1	F-2	Ⓕ
CKN2	F-2	Ⓕ
CKN3	F-2	Ⓕ
CKN5	F-2	Ⓕ
CKN6	F-2	Ⓕ
CKN7	F-2	Ⓕ
CKN8	F-2	Ⓕ
CKN9	F-2	Ⓕ
CKN10	F-2	Ⓕ
CKN12	F-2	Ⓕ
CKN14	F-2	Ⓕ
CKN15	F-1	Ⓕ
CKN16	F-1	Ⓕ
CKN18	F-1	Ⓕ
CKP1	D-8	Ⓕ
CKP2	D-9	Ⓕ
CKP3	D-9	Ⓕ
CKP4	D-8	Ⓕ
CKP5	D-8	Ⓕ
CKP6	D-8	Ⓕ
CKP7	D-8	Ⓕ
CKP8	D-8	Ⓕ
CKP9	D-8	Ⓕ
CKP10	D-8	Ⓕ
CKP11	D-8	Ⓕ
CKP12	D-9	Ⓕ
CKP13	D-8	Ⓕ
CKP14	D-9	Ⓕ
CKP15	D-9	Ⓕ
CKP16	D-7	Ⓕ
CKP17	D-8	Ⓕ
CKP18	D-9	Ⓕ
CKW2	C-8	Ⓕ
CKW3	C-8	Ⓕ
CKW4	C-8	Ⓕ
CKW6	C-8	Ⓕ
CKW7	C-8	Ⓕ
CKX4	B-8	Ⓕ
CKX5	B-8	Ⓕ
CKX7	A-9	Ⓕ
CKX13	B-8	Ⓕ
CKX14	B-8	Ⓕ
CKX16	B-8	Ⓕ
CKX17	B-8	Ⓕ
CKX21	B-8	Ⓕ
CKX22	B-8	Ⓕ
CKX23	C-9	Ⓕ
CKX24	B-8	Ⓕ
CKX25	B-8	Ⓕ
CKX26	B-8	Ⓕ
CKX27	C-9	Ⓕ
CKX28	B-8	Ⓕ
CKX29	B-8	Ⓕ
CKX30	C-9	Ⓕ
CKY1	D-2	Ⓕ
CKY2	D-2	Ⓕ
CKY13	D-1	Ⓕ
CKY14	D-1	Ⓕ
CKY15	D-1	Ⓕ
CKZ1	A-7	Ⓕ
CKZ2	A-7	Ⓕ
CKZ3	B-7	Ⓕ
CKZ4	A-7	Ⓕ
CKZ5	A-7	Ⓕ
CKZ7	A-7	Ⓕ
CKZ8	A-7	Ⓕ
CKZ9	A-8	Ⓕ
CKZ10	A-8	Ⓕ
CKZ12	A-8	Ⓕ
CKZ13	A-8	Ⓕ
CKZ14	A-8	Ⓕ
CKZ15	A-5	Ⓕ
CKZ16	A-7	Ⓕ

Connector

FP301	F-7	Ⓕ
FP303	F-5	Ⓕ
FP701	D-9	Ⓕ
FP2001	C-1	Ⓒ
FP2002	F-1	Ⓒ
FP4001	C-9	Ⓕ
FP4002	B-9	Ⓕ
FP5001	A-6	Ⓕ
FP6001	F-2	Ⓕ
FP6002	F-3	Ⓕ
FP6006	F-4	Ⓕ
PP201	F-7	Ⓕ
PP301	D-7	Ⓕ
PP3001	A-7	Ⓕ
PP6001	D-1	Ⓕ
PS1001	B-9	Ⓒ

Crystal Oscillator

X201	D-1	Ⓒ
X3501	E-6	Ⓒ
X5501	C-5	Ⓒ
X6001	D-9	Ⓒ
X6003	F-9	Ⓒ
X6301	F-7	Ⓒ

Filter

FL201	E-3	Ⓒ
FL3001	A-5	Ⓒ
FL3002	A-4	Ⓒ
FL3501	E-4	Ⓕ
FL5501	C-5	Ⓕ

Coil

L201	D-2	Ⓒ
L202	D-2	Ⓒ
L203	E-3	Ⓒ
L204	D-2	Ⓒ
L205	D-7	Ⓕ
L208	F-2	Ⓒ
L210	F-2	Ⓒ
L211	F-3	Ⓒ
L214	F-3	Ⓒ
L301	D-3	Ⓒ
L302	E-3	Ⓒ
L303	E-6	Ⓕ
L304	E-4	Ⓒ
L305	C-3	Ⓒ
L306	C-4	Ⓒ
L308	E-4	Ⓒ
L309	E-4	Ⓒ
L310	D-4	Ⓒ
L701	D-2	Ⓒ
L703	E-2	Ⓒ
L704	C-7	Ⓕ
L1001	C-8	Ⓒ
L1002	B-8	Ⓒ
L1003	B-7	Ⓒ
L1004	B-7	Ⓒ
L1006	B-3	Ⓕ
L1007	A-8	Ⓒ
L1008	A-7	Ⓒ
L1010	C-2	Ⓕ
L1011	C-3	Ⓕ
L1012	B-3	Ⓕ
L1013	B-7	Ⓒ
L1014	B-3	Ⓕ
L1062	C-8	Ⓒ
L1110	C-9	Ⓒ
L2001	E-2	Ⓒ
L3001	B-5	Ⓕ
L3003	C-7	Ⓕ
L3005	B-7	Ⓕ
L3006	C-7	Ⓕ
L3007	C-8	Ⓕ
L3008	C-7	Ⓕ
L3009	B-6	Ⓒ
L3010	C-6	Ⓕ
L3011	B-5	Ⓒ
L3012	B-4	Ⓒ
L3013	B-5	Ⓒ
L3014	B-8	Ⓕ
L3015	C-6	Ⓒ
L3016	A-5	Ⓒ
L3501	E-6	Ⓒ
L3502	E-3	Ⓕ
L3504	E-6	Ⓒ
L3506	E-4	Ⓕ
L3507	D-4	Ⓕ
L3508	E-6	Ⓒ
L4001	B-1	Ⓒ
L4501	C-1	Ⓒ
L4502	A-2	Ⓒ
L5001	B-4	Ⓒ
L5002	B-6	Ⓕ
L5003	B-7	Ⓕ
L5004	B-7	Ⓕ
L5005	B-6	Ⓕ
L5006	B-6	Ⓕ
L5007	A-4	Ⓒ
L5501	B-4	Ⓒ
L5502	C-4	Ⓕ
L5503	C-6	Ⓒ
L5504	C-4	Ⓕ
L5505	C-4	Ⓕ
L5506	C-5	Ⓒ
L5507	C-5	Ⓕ
L5509	C-5	Ⓕ
L6002	D-7	Ⓒ
L6302	C-7	Ⓒ
LB201	D-2	Ⓒ
LB202	D-2	Ⓒ
LB301	D-4	Ⓒ
LB302	E-4	Ⓒ
LB303	E-4	Ⓒ
LB304	E-4	Ⓒ
LB306	F-4	Ⓒ

Capacitor

C201	E-3	Ⓒ
C202	E-7	Ⓕ
C203	F-8	Ⓕ
C204	F-2	Ⓒ
C205	E-7	Ⓕ
C206	E-2	Ⓒ
C207	D-2	Ⓒ
C208	D-2	Ⓒ
C209	D-7	Ⓕ
C210	F-6	Ⓕ
C211	E-3	Ⓒ
C212	F-7	Ⓕ
C213	E-7	Ⓕ
C214	E-3	Ⓒ
C216	F-3	Ⓒ
C217	F-7	Ⓕ
C218	F-3	Ⓒ
C219	E-3	Ⓒ
C220	E-3	Ⓒ
C221	F-3	Ⓒ
C223	E-8	Ⓕ
C225	E-2	Ⓒ
C226	F-2	Ⓒ
C227	E-8	Ⓕ
C229	E-2	Ⓒ
C230	E-2	Ⓒ
C231	F-7	Ⓕ
C232	E-2	Ⓒ
C233	F-3	Ⓒ
C234	E-3	Ⓒ
C235	D-2	Ⓒ
C237	F-4	Ⓒ
C238	F-6	Ⓕ
C239	E-8	Ⓕ
C240	F-6	Ⓕ
C301	D-3	Ⓒ
C302	D-3	Ⓒ
C303	E-7	Ⓕ
C304	E-4	Ⓒ
C306	E-4	Ⓒ
C307	D-5	Ⓒ
C308	E-4	Ⓒ
C309	E-5	Ⓒ
C310	D-3	Ⓒ
C311	D-3	Ⓒ
C312	C-3	Ⓒ
C313	E-4	Ⓒ
C314	E-4	Ⓒ
C315	E-4	Ⓒ
C316	E-4	Ⓒ
C317	E-4	Ⓒ
C318	D-5	Ⓒ
C319	C-4	Ⓒ
C320	C-3	Ⓒ
C321	D-5	Ⓕ
C322	C-6	Ⓕ
C323	D-4	Ⓒ
C324	D-3	Ⓒ
C325	D-3	Ⓒ
C326	F-5	Ⓕ
C327	C-6	Ⓕ
C328	C-6	Ⓕ
C329	F-3	Ⓒ
C330	F-3	Ⓒ
C331	D-4	Ⓒ
C334	C-4	Ⓒ
C335	C-4	Ⓒ
C341	D-5	Ⓕ
C701	C-2	Ⓒ
C702	D-8	Ⓕ
C703	C-1	Ⓒ
C704	C-2	Ⓒ
C705	D-1	Ⓒ
C706	D-8	Ⓕ
C709	D-1	Ⓒ
C710	D-1	Ⓒ
C711	C-7	Ⓕ
C719	D-2	Ⓒ
C720	D-2	Ⓒ
C721	C-2	Ⓒ
C722	C-2	Ⓒ
C1001	B-1	Ⓕ
C1002	C-1	Ⓕ
C1003	B-2	Ⓕ
C1004	B-2	Ⓕ
C1005	C-7	Ⓒ
C1008	A-7	Ⓒ
C1009	A-2	Ⓕ
C1010	B-6	Ⓒ
C1012	A-2	Ⓕ
C1016	C-7	Ⓒ
C1017	B-2	Ⓕ
C1019	C-3	Ⓕ
C1020	A-2	Ⓕ
C1022	C-3	Ⓕ
C1024	A-3	Ⓕ
C1025	B-3	Ⓕ
C1026	A-6	Ⓒ
C1027	A-7	Ⓒ
C1028	B-6	Ⓒ
C1029	B-3	Ⓒ
C1030	B-3	Ⓕ
C1031	B-3	Ⓕ
C1032	B-3	Ⓕ
C1033	B-3	Ⓕ
C1034	B-2	Ⓕ
C1035	A-2	Ⓕ
C1036	A-3	Ⓕ
C1037	A-3	Ⓕ
C1040	B-1	Ⓕ
C1041	B-1	Ⓕ
C1042	B-3	Ⓕ
C1044	B-7	Ⓒ
C1046	B-7	Ⓒ
C1051	B-6	Ⓒ
C1055	B-7	Ⓒ
C1057	C-6	Ⓒ
C1064	C-8	Ⓒ
C1066	C-2	Ⓕ
C1073	A-2	Ⓕ
C1080	B-7	Ⓒ
C1081	A-7	Ⓒ
C1082	A-7	Ⓒ
C1084	B-2	Ⓕ
C1111	C-1	Ⓕ
C2001	E-8	Ⓕ
C2002	E-8	Ⓕ
C2003	E-8	Ⓕ
C2004	E-8	Ⓕ
C2005	E-8	Ⓕ
C2007	E-8	Ⓕ
C2008	E-1	Ⓒ
C2009	E-8	Ⓕ
C2010	E-8	Ⓕ
C2011	E-8	Ⓕ
C2012	E-1	Ⓒ
C2013	E-2	Ⓒ
C2014	F-2	Ⓒ
C2015	E-1	Ⓒ
C2016	E-1	Ⓒ
C2017	E-1	Ⓒ
C2018	F-2	Ⓒ
C2019	E-1	Ⓒ
C2020	F-2	Ⓒ
C2021	F-1	Ⓒ
C2022	F-1	Ⓒ
C2023	F-8	Ⓕ
C2025	F-1	Ⓒ
C2026	F-1	Ⓒ
C2027	F-1	Ⓒ
C2028	E-2	Ⓒ
C2029	F-8	Ⓕ
C2030	E-1	Ⓒ
C2031	E-1	Ⓒ
C2032	E-1	Ⓒ
C2040	E-9	Ⓕ
C2041	E-9	Ⓕ
C2042	E-9	Ⓕ
C2043	F-2	Ⓒ
C2070	E-8	Ⓕ
C3001	A-3	Ⓕ
C3002	A-4	Ⓕ
C3003	B-4	Ⓕ
C3004	A-4	Ⓕ
C3005	A-4	Ⓕ
C3006	A-4	Ⓕ
C3007	A-4	Ⓕ
C3008	A-4	Ⓕ
C3009	A-4	Ⓕ
C3010	A-5	Ⓕ
C3011	A-4	Ⓕ
C3012	A-5	Ⓒ
C3013	B-5	Ⓒ
C3014	A-5	Ⓕ
C3015	A-5	Ⓕ
C3016	A-5	Ⓕ
C3017	A-5	Ⓕ
C3018	A-5	Ⓕ
C3019	B-5	Ⓕ
C3020	C-7	Ⓕ
C3021	B-5	Ⓕ
C3023	B-5	Ⓕ
C3025	B-5	Ⓕ
C3026	A-5	Ⓕ
C3027	A-5	Ⓕ
C3028	B-4	Ⓒ
C3029	A-5	Ⓒ
C3030	A-5	Ⓒ
C3031	B-5	Ⓒ
C3032	B-4	Ⓒ
C3033	B-4	Ⓒ
C3034	B-4	Ⓒ
C3035	B-4	Ⓒ
C3036	B-4	Ⓒ
C3038	A-4	Ⓕ
C3043	B-8	Ⓕ
C3044	A-5	Ⓒ
C3045	C-7	Ⓕ
C3046	B-7	Ⓕ
C3047	C-7	Ⓕ
C3048	C-2	Ⓒ
C3049	C-2	Ⓒ
C3050	B-2	Ⓒ
C3051	A-2	Ⓒ
C3052	A-2	Ⓒ
C3053	B-2	Ⓒ
C3054	B-2	Ⓒ
C3055	B-2	Ⓒ
C3056	C-3	Ⓒ
C3057	B-2	Ⓒ
C3058	B-7	Ⓕ
C3060	A-6	Ⓒ
C3061	B-5	Ⓒ
C3062	A-6	Ⓒ
C3063	A-6	Ⓒ
C3064	A-6	Ⓒ
C3065	B-6	Ⓒ
C3066	B-6	Ⓒ
C3068	B-5	Ⓒ
C3070	A-5	Ⓒ
C3071	A-6	Ⓒ
C3073	A-4	Ⓒ
C3075	A-4	Ⓕ
C3076	B-5	Ⓕ
C3077	C-6	Ⓕ
C3078	B-5	Ⓒ
C3079	A-6	Ⓒ
C3080	C-6	Ⓕ
C3081	C-6	Ⓕ
C3083	C-7	Ⓕ
C3084	C-7	Ⓕ
C3085	C-3	Ⓒ
C3086	C-4	Ⓒ
C3087	C-5	Ⓕ
C3110	B-4	Ⓒ
C3111	B-5	Ⓒ
C3112	B-5	Ⓒ
C3113	B-5	Ⓒ
C3114	B-5	Ⓒ
C3115	B-5	Ⓒ
C3117	B-5	Ⓒ
C3118	B-5	Ⓒ
C3120	B-6	Ⓒ
C3121	B-6	Ⓒ
C3501	E-3	Ⓕ
C3502	D-3	Ⓕ
C3503	D-6	Ⓒ
C3504	D-4	Ⓕ
C3505	C-6	Ⓒ
C3507	D-3	Ⓕ
C3512	D-6	Ⓒ
C3513	D-3	Ⓕ
C3514	D-3	Ⓒ
C3515	D-6	Ⓒ
C3516	E-6	Ⓒ
C3517	E-3	Ⓕ
C3518	E-6	Ⓒ
C3520	D-4	Ⓕ
C3521	E-4	Ⓕ
C3522	E-4	Ⓕ
C3523	E-4	Ⓕ
C3524	E-4	Ⓕ
C3525	E-6	Ⓒ
C3528	E-4	Ⓕ
C3529	E-4	Ⓕ
C3530	E-5	Ⓒ
C3531	E-5	Ⓒ
C3532	E-4	Ⓕ
C3533	D-4	Ⓕ
C3534	E-4	Ⓕ
C3535	E-5	Ⓒ
C3536	E-4	Ⓕ
C3541	E-6	Ⓒ
C3542	E-3	Ⓕ
C3543	D-5	Ⓕ
C3544	D-5	Ⓕ

ADDRESS INFORMATION Ⓒ... COMPONENT SIDE Ⓕ... FOIL SIDE

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MAIN C.B.A. Section

MAIN C.B.A.

C3545	C-5	Ⓕ
C3546	D-5	Ⓕ
C4001	B-8	Ⓕ
C4002	B-8	Ⓕ
C4003	B-2	Ⓒ
C4004	B-8	Ⓕ
C4005	B-8	Ⓕ
C4006	B-8	Ⓕ
C4007	B-8	Ⓕ
C4008	B-8	Ⓕ
C4009	B-1	Ⓒ
C4010	B-8	Ⓕ
C4011	B-8	Ⓕ
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C4013	C-1	Ⓒ
C4014	C-8	Ⓕ
C4015	C-8	Ⓕ
C4016	C-8	Ⓕ
C4017	C-2	Ⓒ
C4018	C-1	Ⓒ
C4020	C-8	Ⓕ
C4023	B-8	Ⓕ
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C4502	B-2	Ⓒ
C4503	A-1	Ⓒ
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C4505	A-2	Ⓒ
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C4541	B-1	Ⓒ
C4544	B-1	Ⓒ
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C4546	B-1	Ⓒ
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C4551	A-8	Ⓕ
C4554	A-9	Ⓕ
C4555	A-2	Ⓒ
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C5002	B-4	Ⓒ
C5003	B-6	Ⓕ
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C5535	C-5	Ⓒ
C5540	C-5	Ⓒ
C5542	B-5	Ⓒ
C5543	B-6	Ⓒ
C5544	B-6	Ⓒ
C5545	C-6	Ⓒ
C5546	B-5	Ⓒ
C5547	B-6	Ⓒ
C5548	C-6	Ⓒ
C5549	B-6	Ⓒ
C5550	C-6	Ⓒ
C5552	C-5	Ⓒ
C5553	C-4	Ⓕ
C5555	C-6	Ⓒ
C5556	C-6	Ⓒ
C5557	C-5	Ⓒ
C5573	B-3	Ⓒ
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C6002	F-8	Ⓒ
C6003	F-9	Ⓒ
C6004	D-8	Ⓒ
C6006	E-9	Ⓒ
C6007	D-1	Ⓕ
C6012	F-9	Ⓒ
C6013	D-3	Ⓕ
C6014	F-2	Ⓕ
C6015	D-7	Ⓒ
C6016	E-9	Ⓒ
C6018	F-1	Ⓕ
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C6022	D-2	Ⓕ
C6023	D-8	Ⓒ
C6025	E-3	Ⓕ
C6026	D-7	Ⓒ
C6027	F-8	Ⓒ

C6028	D-7	Ⓒ
C6029	D-9	Ⓒ
C6030	F-8	Ⓒ
C6031	E-8	Ⓒ
C6032	D-8	Ⓒ
C6033	F-8	Ⓒ
C6034	E-7	Ⓒ
C6035	E-3	Ⓕ
C6036	E-7	Ⓒ
C6038	E-2	Ⓕ
C6040	D-8	Ⓒ
C6060	E-1	Ⓕ
C6100	D-8	Ⓒ
C6201	D-8	Ⓒ
C6203	E-7	Ⓒ
C6204	E-2	Ⓕ
C6205	E-3	Ⓕ
C6206	E-7	Ⓒ
C6207	F-8	Ⓒ
C6208	E-3	Ⓕ
C6209	E-7	Ⓒ
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C6215	E-7	Ⓒ
C6216	E-7	Ⓒ
C6217	E-2	Ⓕ
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C6305	D-6	Ⓒ
C6309	D-6	Ⓒ
C6311	D-4	Ⓕ
C6312	F-4	Ⓕ
C6315	C-6	Ⓒ
C6318	F-4	Ⓕ
C6320	F-6	Ⓒ
C6321	F-7	Ⓒ
C6322	F-7	Ⓒ
C6324	F-7	Ⓒ
C6325	D-7	Ⓒ
C6326	D-3	Ⓕ
C6330	C-4	Ⓕ
C6331	D-4	Ⓕ
C6334	F-6	Ⓒ
C6335	F-5	Ⓒ
C6336	F-3	Ⓕ
C6338	C-6	Ⓒ

Resistor

R201	E-7	Ⓕ
R202	E-8	Ⓕ
R203	E-7	Ⓕ
R204	D-7	Ⓕ
R205	E-7	Ⓕ
R206	E-7	Ⓕ
R207	E-2	Ⓒ
R208	F-7	Ⓕ
R209	E-7	Ⓕ
R210	D-7	Ⓕ
R212	E-3	Ⓒ
R213	F-8	Ⓕ
R214	E-3	Ⓒ
R216	E-3	Ⓒ
R217	E-6	Ⓕ
R219	D-3	Ⓒ
R221	E-6	Ⓕ
R222	F-3	Ⓒ
R223	E-2	Ⓒ
R225	D-3	Ⓒ
R226	F-3	Ⓒ
R227	E-3	Ⓒ
R228	D-3	Ⓒ
R230	E-3	Ⓒ
R231	E-3	Ⓒ
R232	E-3	Ⓒ
R233	E-3	Ⓒ
R237	E-3	Ⓒ
R238	D-7	Ⓕ
R239	F-4	Ⓒ
R241	E-7	Ⓕ
R242	F-3	Ⓒ
R243	F-3	Ⓒ
R244	F-6	Ⓕ
R245	E-6	Ⓕ
R246	D-7	Ⓕ
R247	E-6	Ⓕ
R301	E-6	Ⓕ

R302	E-3	Ⓒ
R303	E-4	Ⓒ
R304	D-4	Ⓒ
R305	D-4	Ⓒ
R306	C-4	Ⓒ
R307	C-4	Ⓒ
R308	E-6	Ⓕ
R309	E-6	Ⓕ
R310	D-6	Ⓕ
R311	F-5	Ⓕ
R312	E-6	Ⓕ
R313	D-3	Ⓒ
R314	D-4	Ⓒ
R315	D-4	Ⓒ
R316	E-5	Ⓒ
R317	D-3	Ⓒ
R318	D-3	Ⓒ
R319	D-3	Ⓒ
R320	D-3	Ⓒ
R321	D-5	Ⓒ
R322	E-5	Ⓒ
R323	E-5	Ⓒ
R324	C-4	Ⓒ
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R326	D-3	Ⓒ
R327	F-3	Ⓒ
R328	E-4	Ⓒ
R344	E-5	Ⓕ
R359	D-4	Ⓒ
R360	C-4	Ⓒ
R361	D-5	Ⓕ
R364	C-4	Ⓒ
R367	D-5	Ⓕ
R368	D-5	Ⓕ
R369	D-4	Ⓒ
R370	C-6	Ⓕ
R371	D-4	Ⓒ
R372	D-4	Ⓒ
R373	C-6	Ⓕ
R374	C-7	Ⓕ
R375	F-3	Ⓒ
R376	F-3	Ⓒ
R377	F-3	Ⓒ
R378	D-3	Ⓒ
R379	F-5	Ⓕ
R394	D-3	Ⓒ
R396	C-4	Ⓒ
R398	D-4	Ⓒ
R405	F-3	Ⓒ
R406	F-3	Ⓒ
R407	F-4	Ⓒ
R408	F-5	Ⓕ
R409	C-4	Ⓒ
R701	D-8	Ⓕ
R702	D-8	Ⓕ
R703	D-7	Ⓕ
R704	D-7	Ⓕ
R705	D-8	Ⓕ
R706	D-8	Ⓕ
R707	D-1	Ⓒ
R708	D-1	Ⓒ
R709	D-1	Ⓒ
R711	C-2	Ⓒ
R716	D-2	Ⓒ
R718	D-2	Ⓒ
R720	C-7	Ⓕ
R721	C-7	Ⓕ
R722	C-2	Ⓒ
R723	C-2	Ⓒ
R726	C-2	Ⓒ
R727	C-7	Ⓕ
R728	C-3	Ⓒ
R729	C-7	Ⓕ
R730	C-7	Ⓕ
R731	C-7	Ⓕ
R732	D-7	Ⓕ
R733	D-7	Ⓕ
R734	D-7	Ⓕ
R735	C-2	Ⓒ
R736	C-2	Ⓒ
R737	D-2	Ⓒ
R738	C-7	Ⓕ
R740	D-7	Ⓕ
R741	D-7	Ⓕ

R761	C-2	Ⓒ
R776	D-7	Ⓕ
R1001	B-3	Ⓕ
R1002	B-2	Ⓕ
R1003	C-3	Ⓕ
R1004	C-3	Ⓕ
R1005	A-2	Ⓕ
R1006	A-2	Ⓕ
R1007	A-2	Ⓕ
R1009	B-2	Ⓕ
R1010	C-2	Ⓕ
R1011	C-2	Ⓕ
R1012	A-3	Ⓕ
R1013	A-3	Ⓕ
R1014	A-3	Ⓕ
R1015	A-3	Ⓕ
R1016	A-7	Ⓒ
R1017	B-3	Ⓕ
R1018	B-3	Ⓕ
R1019	B-3	Ⓕ
R1020	B-3	Ⓕ
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R1023	A-2	Ⓕ
R1024	A-2	Ⓕ
R1025	A-3	Ⓕ
R1026	C-3	Ⓕ
R1027	C-3	Ⓕ
R1035	B-2	Ⓕ
R1038	B-2	Ⓕ
R1039	A-2	Ⓕ
R1040	B-2	Ⓕ
R1043	B-2	Ⓕ
R1051	B-6	Ⓒ
R1052	B-6	Ⓒ
R1057	B-2	Ⓕ
R1060	B-2	Ⓕ
R1061	B-2	Ⓕ
R1063	B-3	Ⓕ
R1065	B-2	Ⓕ
R1066	B-7	Ⓒ
R1067	B-7	Ⓒ
R1068	B-7	Ⓒ
R1069	B-7	Ⓒ
R1071	B-2	Ⓕ
R1072	B-2	Ⓕ
R1073	B-3	Ⓕ
R1085	B-7	Ⓒ
R1086	B-7	Ⓒ
R1087	A-7	Ⓒ
R1089	B-2	Ⓕ
R2001	E-8	Ⓕ
R2002	E-8	Ⓕ
R2003	E-8	Ⓕ
R2004	E-8	Ⓕ
R2005	E-8	Ⓕ
R2006	E-8	Ⓕ
R2007	E-9	Ⓕ
R2008	E-9	Ⓕ
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R2018	F-1	Ⓒ
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R3008	A-4	Ⓕ
R3009	B-5	Ⓕ
R3013	B-5	Ⓕ
R3014	B-4	Ⓕ

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R3017	A-5	Ⓕ
R3019	A-5	Ⓒ
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R3136	B-6	Ⓒ
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R3503	D-5	Ⓒ
R3504	D-3	Ⓕ
R3505	E-6	Ⓒ
R3506	F-5	Ⓒ
R3507	E-4	Ⓕ
R3508	D-4	Ⓕ
R3509	E-3	Ⓕ
R3510	E-4	Ⓕ
R3511	E-3	Ⓕ
R3512	E-6	Ⓒ
R3513	E-6	Ⓒ
R3514	D-4	Ⓕ
R3515	D-3	Ⓕ
R3516	D-4	Ⓕ
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R3581	F-5	Ⓒ
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R4003	B-8	Ⓕ
R4004	B-8	Ⓕ
R4005	B-8	Ⓕ
R4006	B-8	Ⓕ
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R4012	B-8	Ⓕ
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R4517	A-2	Ⓒ
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R4530	B-1	Ⓒ
R4531	B-1	Ⓒ
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R4538	B-2	Ⓒ
R4541	B-2	Ⓒ
R4542	B-1	Ⓒ
R4543	B-2	Ⓒ
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R4545	B-1	Ⓒ
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R5008	B-6	Ⓕ
R5009	B-6	Ⓕ
R5010	B-3	Ⓒ
R5011	B-3	Ⓒ
R5012	B-6	Ⓕ
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R5014	A-4	Ⓒ
R5015	A-7	Ⓕ
R5017	B-6	Ⓕ
R5018	A-7	Ⓕ
R5020	B-3	Ⓒ
R5502	C-2	Ⓒ
R5503	B-4	Ⓒ
R5504	C-5	Ⓕ
R5505	C-5	Ⓕ
R5506	C-5	Ⓕ
R5507	C-5	Ⓒ
R5508	C-4	Ⓕ
R5509	C-5	Ⓒ
R5511	B-4	Ⓕ
R5512	B-4	Ⓕ
R5513	B-4	Ⓕ
R5514	B-4	Ⓕ
R5515	C-5	Ⓕ
R5516	B-4	Ⓕ
R5517	B-5	Ⓕ
R5518	B-5	Ⓕ
R5519	C-5	Ⓒ
R5520	B-5	Ⓒ
R5521	B-5	Ⓒ
R5522	B-6	Ⓒ
R5524	B-4	Ⓕ
R5525	C-5	Ⓒ
R5526	C-4	Ⓕ
R5527	C-6	Ⓒ
R5528	C-3	Ⓕ
R5529	C-4	Ⓕ
R5530	C-5	Ⓒ
R5531	C-4	Ⓕ
R5532	C-5	Ⓒ
R5533	C-4	Ⓕ
R5534	C-4	Ⓕ
R5535	C-4	Ⓕ
R5536	C-4	Ⓕ
R5537	C-4	Ⓕ
R5538	C-5	Ⓒ
R5539	C-5	Ⓒ
R5540	C-5	Ⓒ
R5541	C-5	Ⓕ
R5543	C-4	Ⓕ
R5548	C-5	Ⓕ

R5549	C-5	Ⓕ
R5550	C-5	Ⓕ
R5551	C-5	Ⓕ
R6001	F-3	Ⓕ
R6002	E-7	Ⓒ
R6003	F-7	Ⓒ
R6004	F-8	Ⓒ
R6005	D-2	Ⓕ
R6006	F-8	Ⓒ
R6007	D-1	Ⓕ
R6008	D-1	Ⓕ
R6009	E-8	Ⓒ
R6010	E-3	Ⓕ
R6012	F-9	Ⓒ
R6013	E-8	Ⓒ
R6014	E-8	Ⓒ
R6015	E-8	Ⓒ
R6016	E-8	Ⓒ
R6017	D-1	Ⓕ
R6018	E-7	Ⓒ
R6019	F-8	Ⓒ
R6020	E-8	Ⓒ
R6021	F-7	Ⓒ
R6022	F-8	Ⓒ
R6023	E-8	Ⓒ
R6024	F-8	Ⓒ
R6025	E-8	Ⓒ
R6026	E-8	Ⓒ
R6027	F-3	Ⓕ
R6028	D-7	Ⓒ
R6029	E-3	Ⓕ
R6030	D-7	Ⓒ
R6031	D-7	Ⓒ
R6032	E-8	Ⓒ
R6033	F-8	Ⓒ
R6034	D-2	Ⓕ
R6035	D-2	Ⓕ
R6036	D-8	Ⓒ
R6037	F-8	Ⓒ
R6038	D-8	Ⓒ
R6039	E-8	Ⓒ
R6040	E-1	Ⓕ
R6041	E-3	Ⓕ
R6042	F-2	Ⓕ
R6043	E-7	Ⓒ
R6044	E-3	Ⓕ
R6045	E-3	Ⓕ
R6046	F-8	Ⓒ
R6047	E-3	Ⓕ
R6048	E-8	Ⓒ
R6049	D-8	Ⓒ
R6050	D-7	Ⓒ
R6051	D-2	Ⓕ
R6052	D-2	Ⓕ
R6053	D-2	Ⓕ
R6054	D-2	Ⓕ
R6055	E-3	Ⓕ
R6056	F-8	Ⓒ
R6057	F-2	Ⓕ
R6058	D-7	Ⓒ
R6059	F-1	Ⓕ
R6061	D-2	Ⓕ
R6062	D-2	Ⓕ
R6063	E-1	Ⓕ
R6064	F-2	Ⓕ
R6065	F-2	Ⓕ
R6066	E-1	Ⓕ
R6067	F-8	Ⓒ
R6068	F-1	Ⓕ
R6069	F-8	Ⓒ
R6070	D-2	Ⓕ
R6071	D-2	Ⓕ
R6072	D-8	Ⓒ
R6073	D-2	Ⓕ
R6074	D-8	Ⓒ
R6075	D-8	Ⓒ
R6076	D-8	Ⓒ
R6077	D-8	Ⓒ
R6078	D-8	Ⓒ
R6079	D-8	Ⓒ
R6080	D-2	Ⓕ
R6081	E-1	Ⓕ
R6082	D-8	Ⓒ
R6083	E-1	Ⓕ

R6084	E-1	Ⓕ
R6085	E-8	Ⓒ
R6086	D-8	Ⓒ
R6087	E-9	Ⓒ
R6088	E-9	Ⓒ
R6089	F-2	Ⓕ
R6090	D-8	Ⓒ
R6091	D-8	Ⓒ
R6092	E-8	Ⓒ
R6093	D-2	Ⓕ
R6094	D-2	Ⓕ
R6095	F-2	Ⓕ
R6096	D-2	Ⓕ
R6097	D-1	Ⓕ
R6098	D-7	Ⓒ
R6099	D-2	Ⓕ
R6144	F-3	Ⓕ
R6145	F-3	Ⓕ
R6154	E-9	Ⓒ
R6201	D-8	Ⓒ
R6202	E-8	Ⓒ
R6203	E-8	Ⓒ
R6204	F-2	Ⓕ
R6205	F-2	Ⓕ
R6206	E-7	Ⓒ
R6207	E-7	Ⓒ
R6208	E-8	Ⓒ
R6209	E-7	Ⓒ
R6210	E-8	Ⓒ
R6211	E-8	Ⓒ
R6212	E-2	Ⓕ
R6213	E-2	Ⓕ
R6214	F-3	Ⓕ
R6215	E-2	Ⓕ
R6218	E-7	Ⓒ
R6302	D-6	Ⓒ
R6305	D-6	Ⓒ
R6306	D-6	Ⓒ
R6307	D-6	Ⓒ
R6308	D-7	Ⓒ
R6310	D-6	Ⓒ
R6311	D-3	Ⓕ
R6312	D-3	Ⓕ
R6314	C-4	Ⓕ
R6315	D-4	Ⓕ
R6316	D-3	Ⓕ
R6318	D-3	Ⓕ
R6319	D-3	Ⓕ
R6323	F-6	Ⓒ
R6324	F-6	Ⓒ
R6325	C-4	Ⓕ
R6326	C-4	Ⓕ
R6327	D-4	Ⓕ
R6329	F-5	Ⓒ
R6338	F-3	Ⓕ
R6339	F-5	Ⓒ
R6340	F-4	Ⓕ
R6341	F-6	Ⓒ
R6342	F-6	Ⓒ
R6348	D-4	Ⓕ

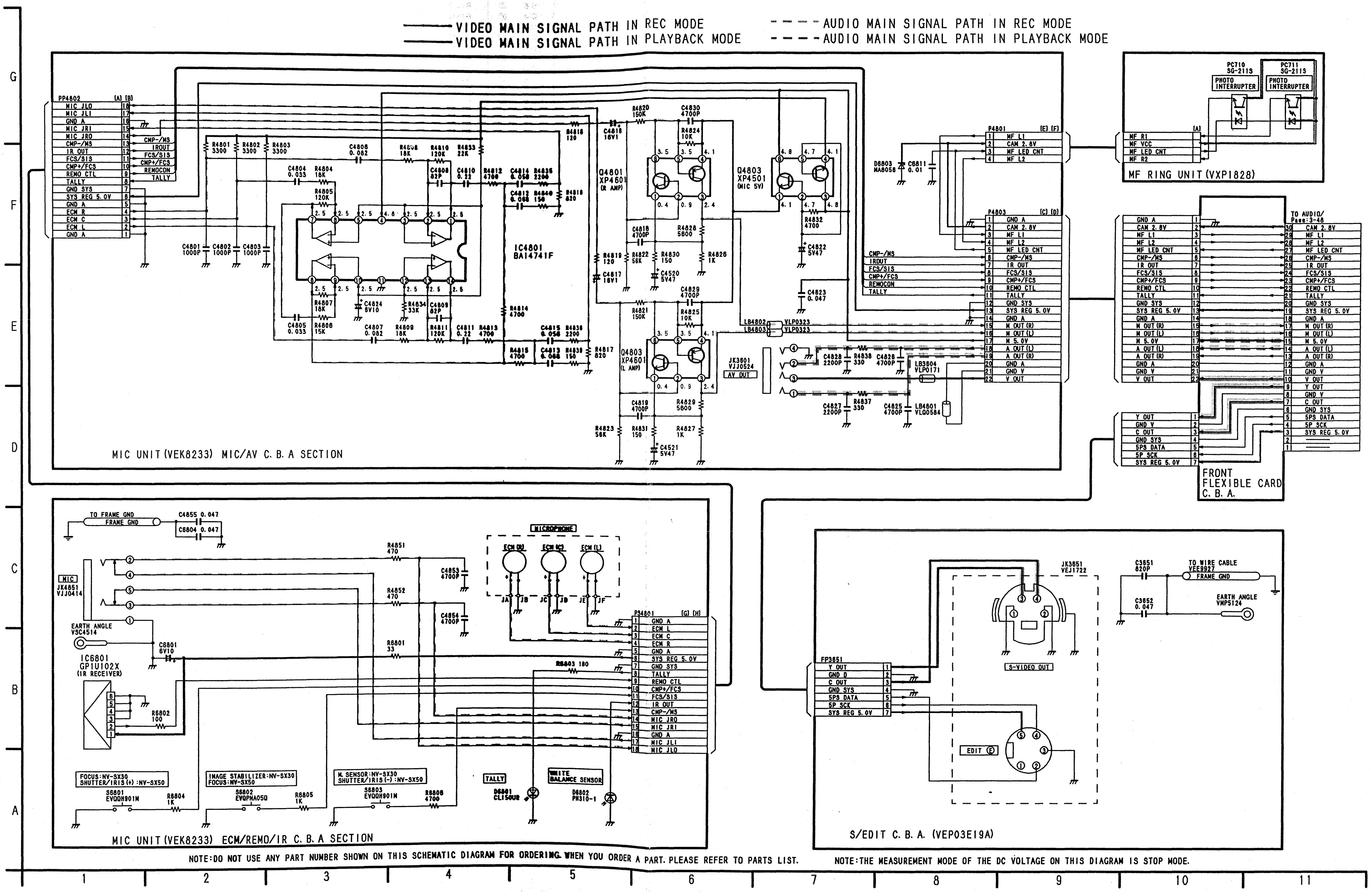
Resistor Array

RA301	D-6	Ⓕ
RA302	E-6	Ⓕ
RA311	E-5	Ⓒ
RA312	E-5	Ⓒ
RA313	E-5	Ⓒ
RA6001	F-2	Ⓕ
RA6002	F-2	Ⓕ
RA6003	F-2	Ⓕ
RA6004	F-2	Ⓕ
RA6005	F-2	Ⓕ
RA6006	E-3	Ⓕ
RA6007	E-2	Ⓕ
RA6008	F-8	Ⓒ

Wire

W201	E-2	Ⓒ
W203	E-3	Ⓒ
W302	C-5	Ⓒ
W304	D-5	Ⓒ
W306	D-4	Ⓒ
W311	E-6	Ⓕ

3-27. AV JACK SCHEMATIC DIAGRAM

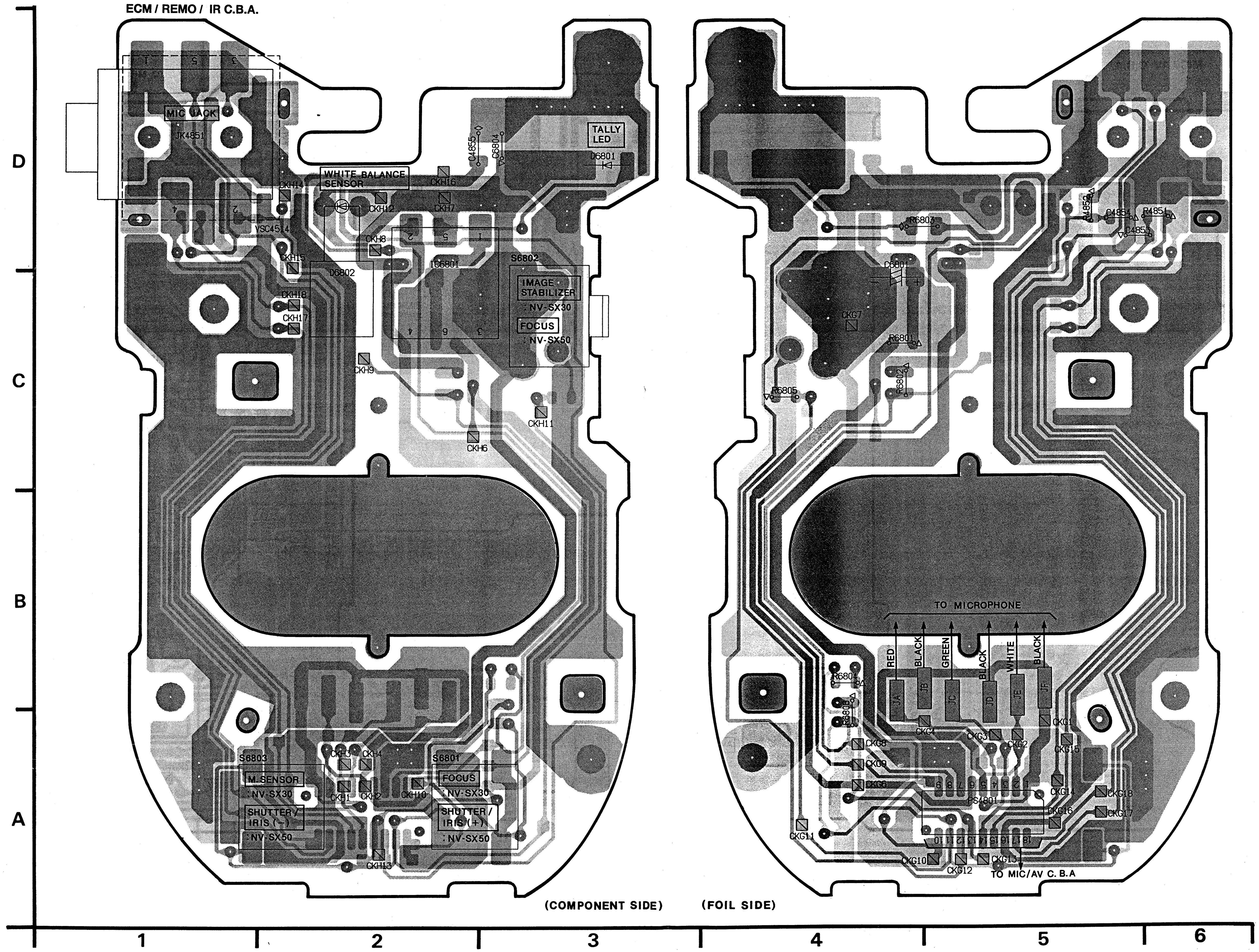

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
PP4802 (A) (B)
MIC JLO 18
MIC JLI 17
GND A 16
MIC JRI 15
MIC JRO 14
CMP-/MS 13
IR OUT 12
FCS/SIS 11
CMP+/FCS 10
REMO CTL 9
TALLY 8
GND SYS 7
SYS REG 5.0V 6
GND A 5
ECM R 4
ECM C 3
ECM L 2
GND A 1
CMP-/MS
IROUT
FCS/SIS
CMP+/FCS
REMOCON
TALLY
R4801 3300
R4802 3300
R4803 3300
C4801 1000P
C4802 1000P
C4803 1000P
C4804 0.033
R4804 18K
R4805 120K
C4806 0.082
R4808 18K
R4810 120K
R4833 22K
C4808 82P
C4810 0.22
R4812 4700
C4814 0.056
R4835 2200
C4812 0.068
R4840 150
R4816 820
R4818 120
IC4801
BA14741F
R4807 18K
R4806 15K
C4805 0.033
C4824 6V10
R4834 33K
C4809 82P
C4807 0.082
R4809 18K
R4811 120K
C4811 0.22
R4813 4700
R4814 4700
R4815 4700
C4815 0.056
R4836 2200
C4813 0.068
R4839 150
R4817 820
R4820 150K
C4830 4700P
C4816 16V1
R4824 10K
Q4801
XP4601
(R AMP)
Q4803
XP4501
(MIC 5V)
C4818 4700P
R4828 5600
R4819 120
R4822 56K
R4830 150
R4826 1K
C4817 16V1
C4520 5V47
R4832 4700
C4822 5V47
C4823 0.047
R4821 150K
C4829 4700P
R4825 10K
Q4803
XP4601
(L AMP)
C4819 4700P
R4829 5600
R4823 56K
R4831 150
R4827 1K
C4521 5V47
LB4802 VLP0323
LB4803 VLP0323
JK3601
VJJ0524
AV OUT
C4828 2200P
R4838 330
C4826 4700P
LB3604 VLP0171
C4827 2200P
R4837 330
C4825 4700P
LB4801 VLQ0584
D6803 MA8058
C6811 0.01
P4801 (E) (F)
1 MF L1
2 CAM 2.8V
3 MF LED CNT
4 MF L2
P4803 (C) (D)
1 GND A
2 CAM 2.8V
3 MF L1
4 MF L2
5 MF LED CNT
6 CMP-/MS
7 IR OUT
8 FCS/SIS
9 CMP+/FCS
10 REMO CTL
11 TALLY
12 GND SYS
13 SYS REG 5.0V
14 GND A
15 M OUT (R)
16 M OUT (L)
17 M 5.0V
18 A OUT (L)
19 A OUT (R)
20 GND A
21 GND V
22 V OUT
MIC UNIT (VEK8233) MIC/AV C.B.A SECTION
PC710 SG-211S
PHOTO INTERRUPTER
PC711 SG-211S
PHOTO INTERRUPTER
(A)
MF R1
MF VCC
MF LED CNT
MF R2
MF RING UNIT (VXP1828)
TO AUDIO/
Page:3-48
GND A 1
CAM 2.8V 2 30 CAM 2.8V
MF L1 3 29 MF L1
MF L2 4 28 MF L2
MF LED CNT 5 27 MF LED CNT
CMP-/MS 6 26 CMP-/MS
IR OUT 7 25 IR OUT
FCS/SIS 8 24 FCS/SIS
CMP+/FCS 9 23 CMP+/FCS
REMO CTL 10 22 REMO CTL
TALLY 11 21 TALLY
GND SYS 12 20 GND SYS
SYS REG 5.0V 13 19 SYS REG 5.0V
GND A 14 18 GND A
M OUT (R) 15 17 M OUT (R)
M OUT (L) 16 16 M OUT (L)
M 5.0V 17 15 M 5.0V
A OUT (L) 18 14 A OUT (L)
A OUT (R) 19 13 A OUT (R)
GND A 20 12 GND A
GND V 21 11 GND V
V OUT 22 10 V OUT
9 Y OUT
8 GND V
7 C OUT
6 GND SYS
5 5PS DATA
4 5P SCK
3 SYS REG 5.0V
2
1
Y OUT 1
GND V 2
C OUT 3
GND SYS 4
5PS DATA 5
5P SCK 6
SYS REG 5.0V 7
FRONT
FLEXIBLE CARD
C.B.A.
TO FRAME GND
FRAME GND
C4855 0.047
C6804 0.047
MIC
JK4851
VJJ0414
EARTH ANGLE
VSC4514
IC6801
GP1U102X
(IR RECEIVER)
C6801 6V10
R6802 100
R4851 470
R4852 470
C4853 4700P
C4854 4700P
R6801 33
R6803 180
MICROPHONE
ECM (R)
ECM (C)
ECM (L)
JA
JB
JC
JD
JE
JF
PS4801 (G) (H)
1 GND A
2 ECM L
3 ECM C
4 ECM R
5 GND A
6 SYS REG 5.0V
7 GND SYS
8 TALLY
9 REMO CTL
10 CMP+/FCS
11 FCS/SIS
12 IR OUT
13 CMP-/MS
14 MIC JRO
15 MIC JRI
16 GND A
17 MIC JLI
18 MIC JLO
FOCUS:NV-SX30
SHUTTER/IRIS(+):NV-SX50
S6801
EVQQH901N
R6804 1K
IMAGE STABILIZER:NV-SX30
FOCUS:NV-SX50
S6802
EVQPNA05Q
R6805 1K
M. SENSOR:NV-SX30
SHUTTER/IRIS(-):NV-SX50
S6803
EVQQH901N
R6806 4700
TALLY
D6801
CL150UR
WHITE
BALANCE SENSOR
D6802
PN310-1
MIC UNIT (VEK8233) ECM/REMO/IR C.B.A SECTION
JK3651
VEJ1722
S-VIDEO OUT
EDIT Ⓔ
FP3651
Y OUT 1
GND D 2
C OUT 3
GND SYS 4
5PS DATA 5
5P SCK 6
SYS REG 5.0V 7
C3651 820P
C3652 0.047
TO WIRE CABLE
VEE9927
FRAME GND
EARTH ANGLE
VMP5124
S/EDIT C.B.A. (VEP03E19A)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART. PLEASE REFER TO PARTS LIST.

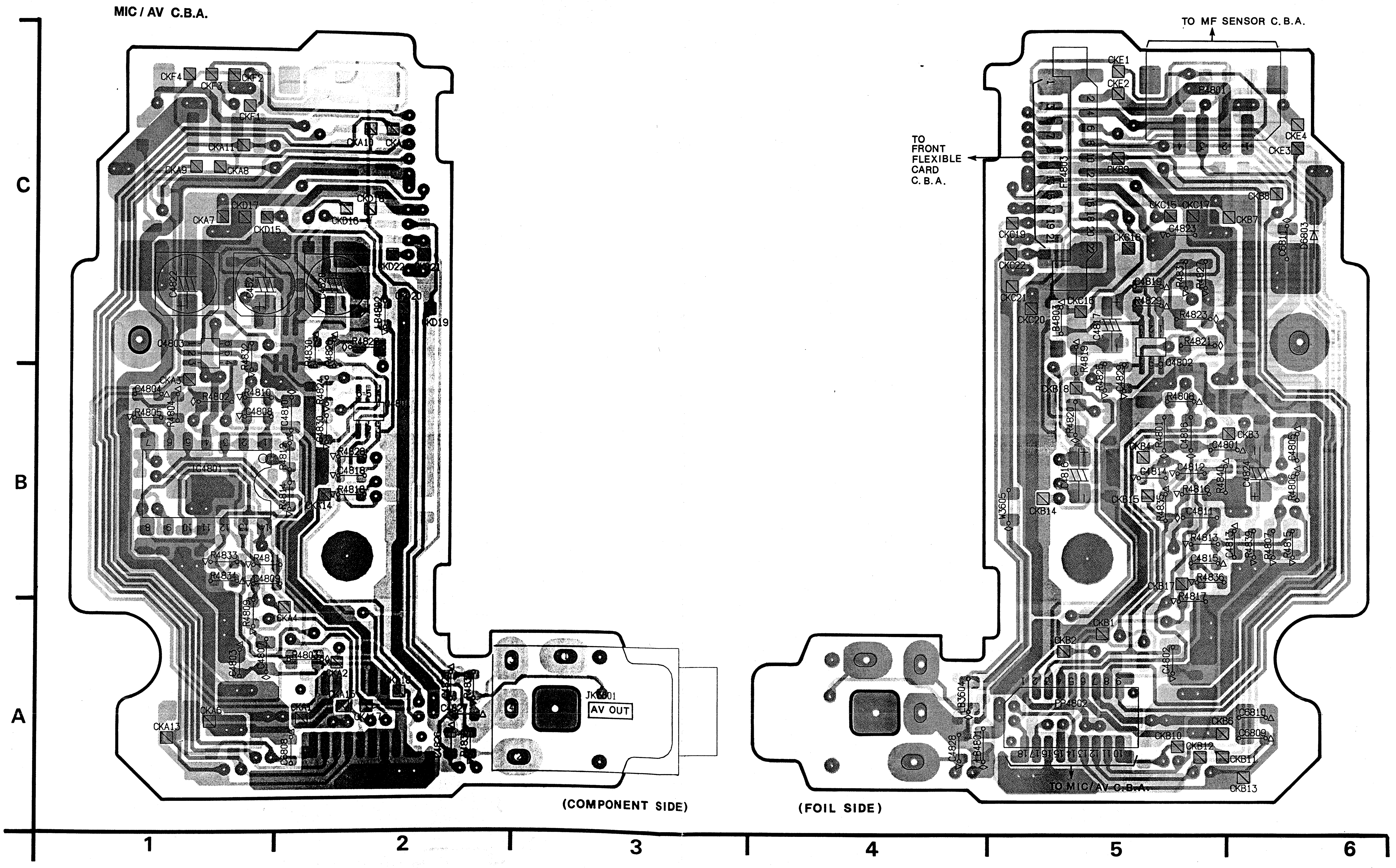
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

Back Page:
ADDRESS INFORMATION

3-28. MIC UNIT [ECM / REMO / IR , MIC / AV Section] C.B.A. (VEK8233)

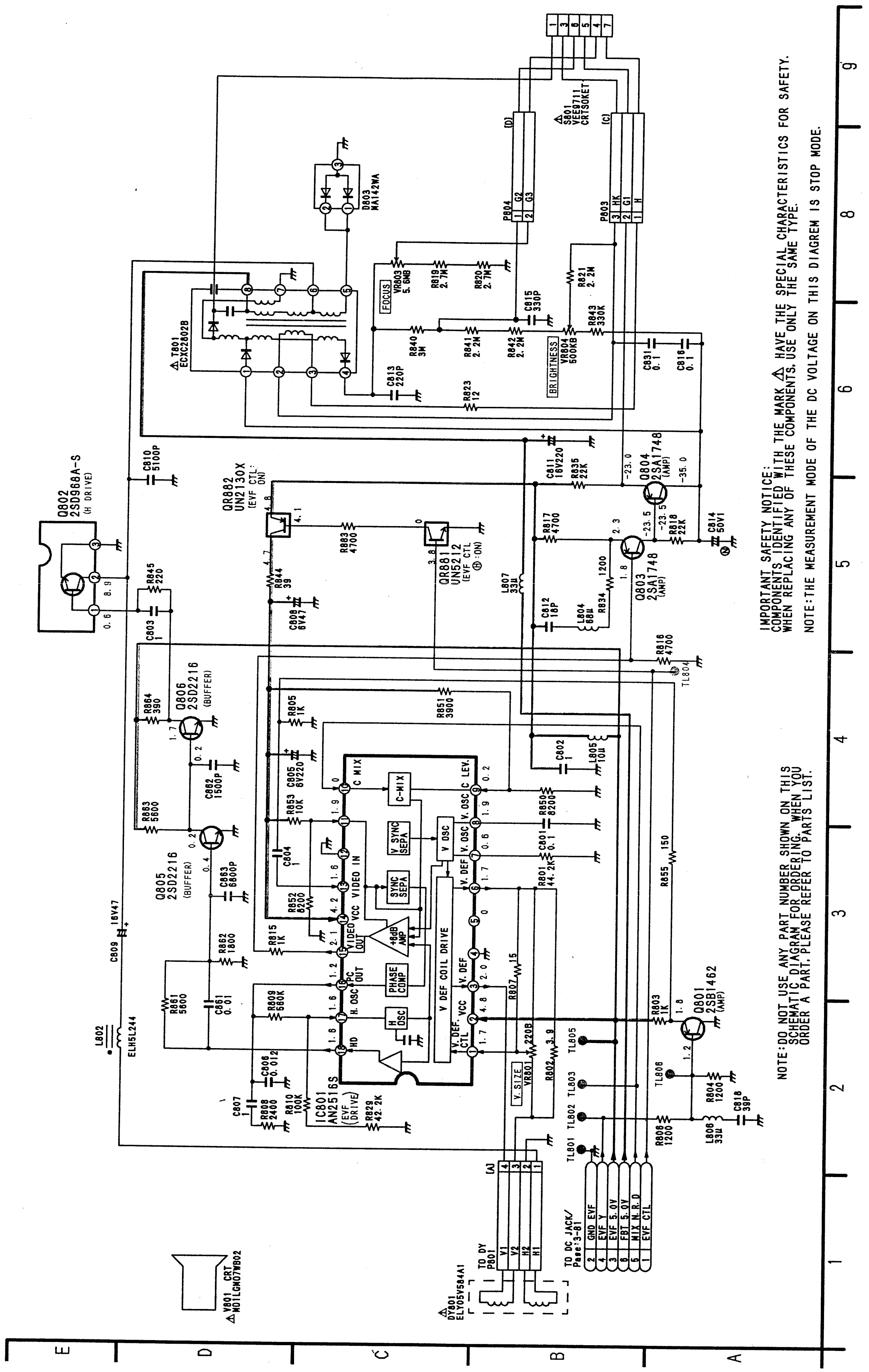

ECM / REMO / IR C.B.A.
MIC JACK
JK4851
VSC4514
WHITE BALANCE SENSOR
CKH14
CKH12
CKH16
CKH7
C4855
C6804
TALLY LED
D6801
CKH8
IC6801
S6802
IMAGE STABILIZER
: NV-SX30
FOCUS
: NV-SX50
CKH15
D6802
CKH18
CKH17
CKH9
CKH11
CKH6
S6803
M.SENSOR
: NV-SX30
SHUTTER / IRIS (−)
: NV-SX50
CKH5
CKH4
CKH1
CKH2
CKH10
S6801
FOCUS
: NV-SX30
SHUTTER / IRIS (+)
: NV-SX50
CKH13
R6803
C4852
C4854
R4851
C4853
C6801
CKG7
R6801
R6802
R6805
TO MICROPHONE
RED
BLACK
GREEN
BLACK
WHITE
BLACK
JA
JB
JC
JD
JE
JF
R6804
R6806
CKG8
CKG9
CKG6
CKG4
CKG3
CKG2
CKG1
CKG15
CKG14
CKG18
CKG17
CKG16
PS4801
CKG11
CKG10
CKG12
CKG13
TO MIC/AV C.B.A
(COMPONENT SIDE)
(FOIL SIDE)
D
C
B
A
1
2
3
4
5
6

3-29. MIC UNIT [ECM / REMO / IR , MIC / AV Section] C.B.A. (VEK8233)


MIC / AV C.B.A.
TO MF SENSOR C.B.A.
TO FRONT FLEXIBLE CARD C.B.A.
TO MIC/AV C.B.A.
JK4801
AV OUT
(COMPONENT SIDE)
(FOIL SIDE)
C
B
A
1
2
3
4
5
6
CKF4
CKF3
CKF2
CKF1
CKA11
CKA10
CKA9
CKA8
CKA7
CKD17
CKD15
CKD16
CKD18
C4822
C4821
C4803
CKA3
C4804
R4805
R4802
R4810
C4808
IC4801
R4833
R4835
C4809
CKA4
CKA13
CKA6
CKA14
CKD19
R4828
C4818
R4818
CKE1
CKE2
CKE3
CKE4
FP4801
FP4803
FP4802
CKB1
CKB2
CKB3
CKB4
CKB6
CKB7
CKB8
CKB9
CKB10
CKB11
CKB12
CKB13
CKB14
CKB15
CKB17
CKB18
CKC15
CKC16
CKC17
CKC18
CKC19
CKC20
CKC21
CKC22
C4823
C4819
R4823
R4821
C4802
R4808
C4801
C4812
C4811
C4815
C4814
R4816
R4813
R4836
R4817
C4806
R4806
R4807
C4820
C4816
C4817
R4819
D6803
C6810
C6809
C4828
W3605
LB3604
LB4801

Back Page:
MIC UNIT C.B.A. Section

3-30. EVF SCHEMATIC DIAGRAM ; NV-SX30

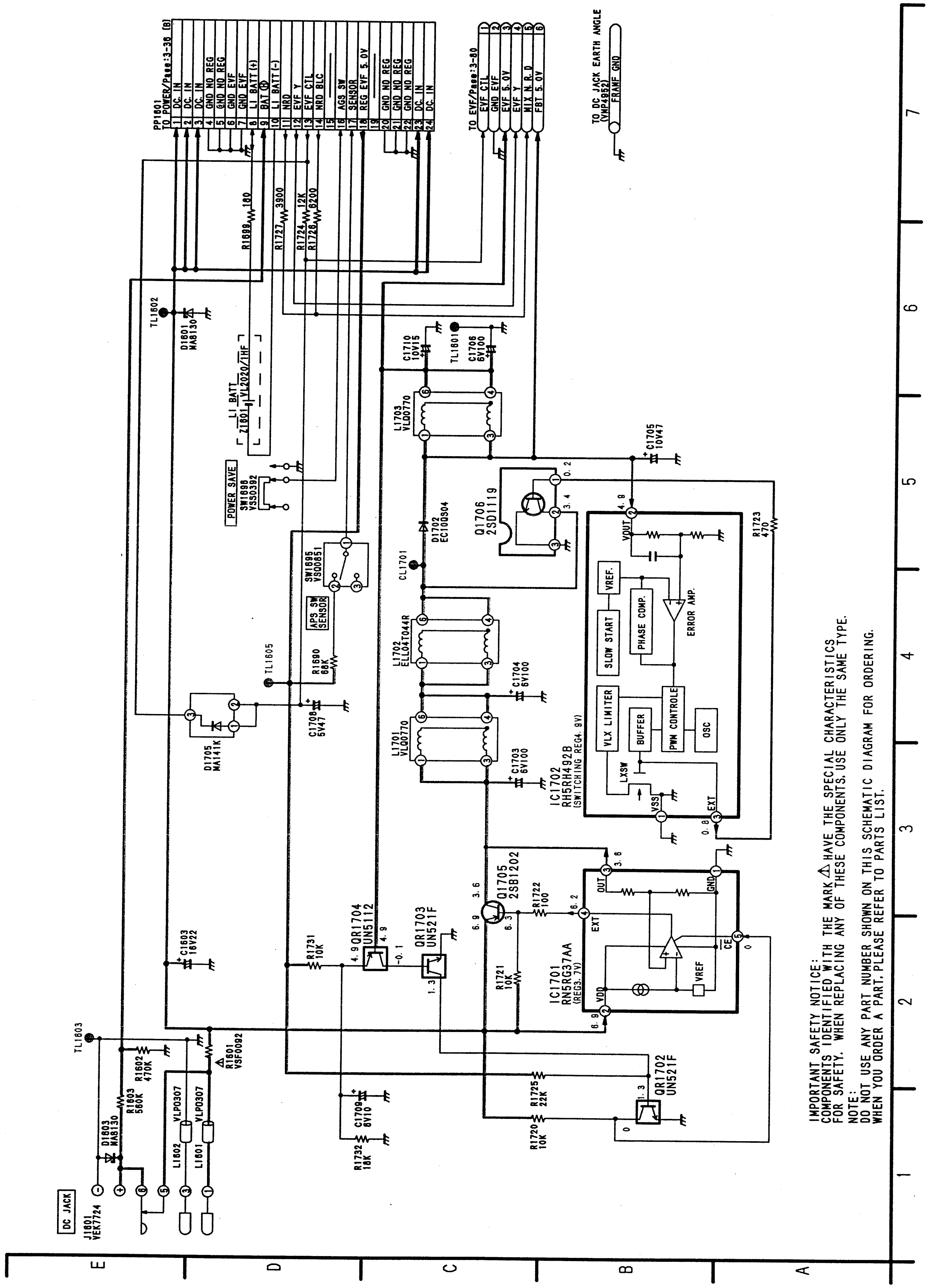

IC801 AN2516S (EVF DRIVE)
Q801 2SB1462 (AMP)
Q802 2SD968A-S (H DRIVE)
Q803 2SA1748 (AMP)
Q804 2SA1748 (AMP)
Q805 2SD2216 (BUFFER)
Q806 2SD2216 (BUFFER)
QR881 UN5212 (EVF CTL: ON)
QR882 UN2130X (EVF CTL: ON)
T801 ECKC2802B
D803 MA142WA
V801 CRT M01LGM07WB02
DY801 ELY05Y584A1
SE01 VSE0711 CRTSOKET
P803
P804
FOCUS
BRIGHTNESS
V.SIZE
TO DY P801
TO DC JACK/ Page:3-81
GND EVF
EVF Y
EVF 5.0V
FBT 5.0V
MIX N.R.D
EVF CTL
C MIX
C LEV
V SYNC SEPA
SYNC SEPA
V OSC
V.DEF
V DEF COIL DRIVE
PHASE COMP
H OSC
H.OSC
VIDEO IN
VIDEO OUT
+6dB AMP
L802 ELH5L244
TL801
TL802
TL803
TL804
TL805
TL808
9
8
7
6
5
4
3
2
1
E
D
C
B
A

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGREM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

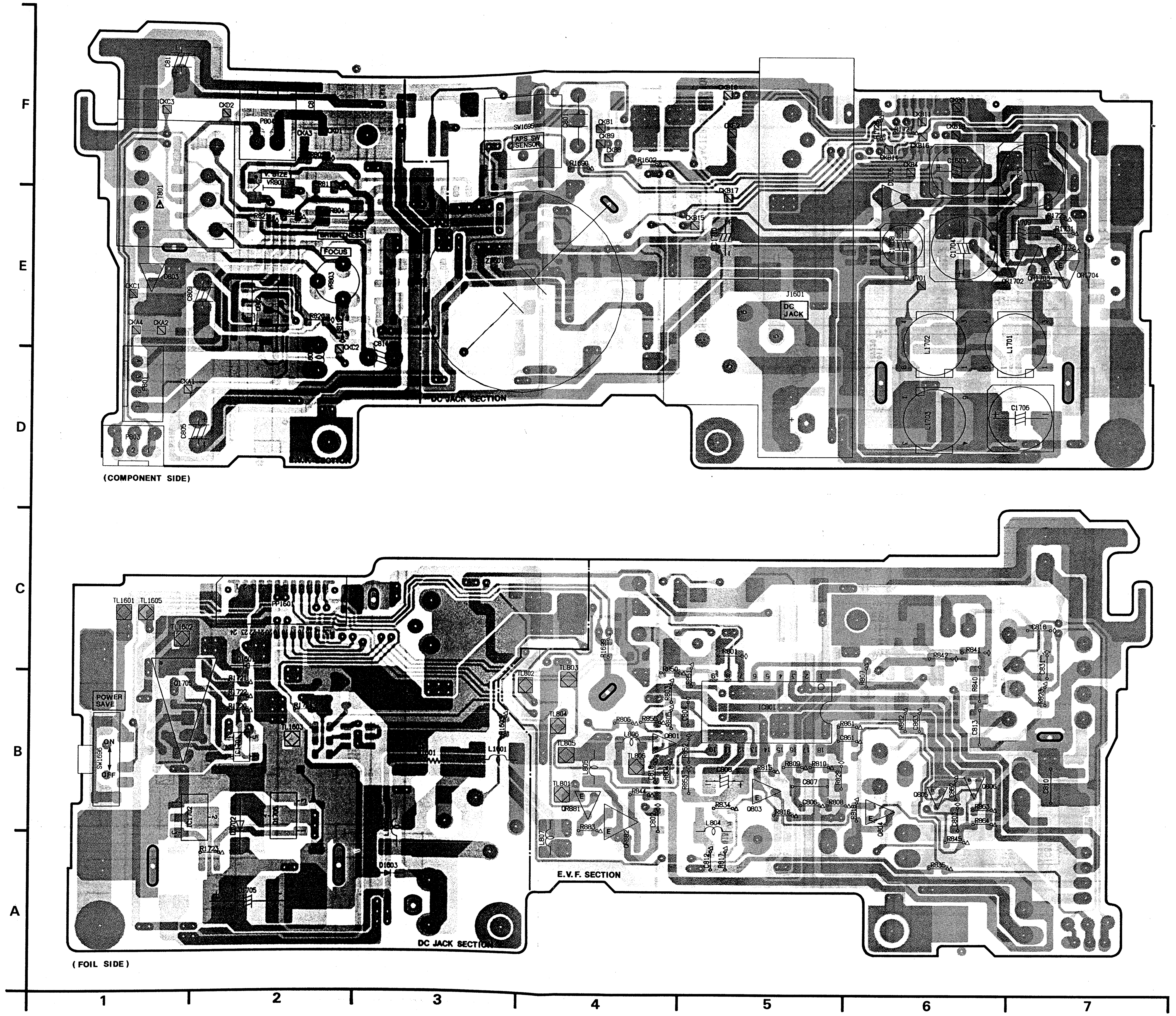
3-31. DC JACK SCHEMATIC DIAGRAM ; NV-SX30


PP1801 TO POWER/Page:3-36 (B)
DC IN
GND NO REG
GND EVF
LI BATT (+)
BAT
LI BATT (-)
HRD
EVF Y
EVF CTL
NRD BLC
AGS SW
SENSOR
REG EVF 5.0V
TO EVF/Page:3-80
EVF CTL
GND EVF
EVF 5.0V
EVF Y
MIX N.R.D
FBT 5.0V
TO DC JACK EARTH ANGLE (VKF4492) FRAME GND
IC1701 RN5RG37AA (REG5.7V)
IC1702 RH5RH492B (SWITCHING REG4.8V)
VLX LIMITER
BUFFER
PWM CONTROLE
OSC
SLOW START
PHASE COMP.
VREF.
ERROR AMP.
Q1705 2SB1202
Q1706 2SD1119
QR1702 UN521F
QR1703 UN521F
QR1704 UN5112
D1705 MA141K
D1801 MA8130
D1803 MA8130
D1702 EC10QS04
L1701 VLQ0770
L1702 ELL04T044R
L1703 VLQ0770
POWER SAVE
APS SW SENSOR
SW1895 VSD0851
SW1898 VSS0392
LI BATT Z1801 VL2020/1HF
DC JACK J1801 VEK7724
L1801 VLP0307
L1802 VLP0307
R1801 VSF0092
E
D
C
B
A
1
2
3
4
5
6
7

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-32. EVF [EVF , DC JACK Section] C.B.A. (VEP28229U) ; NV-SX30

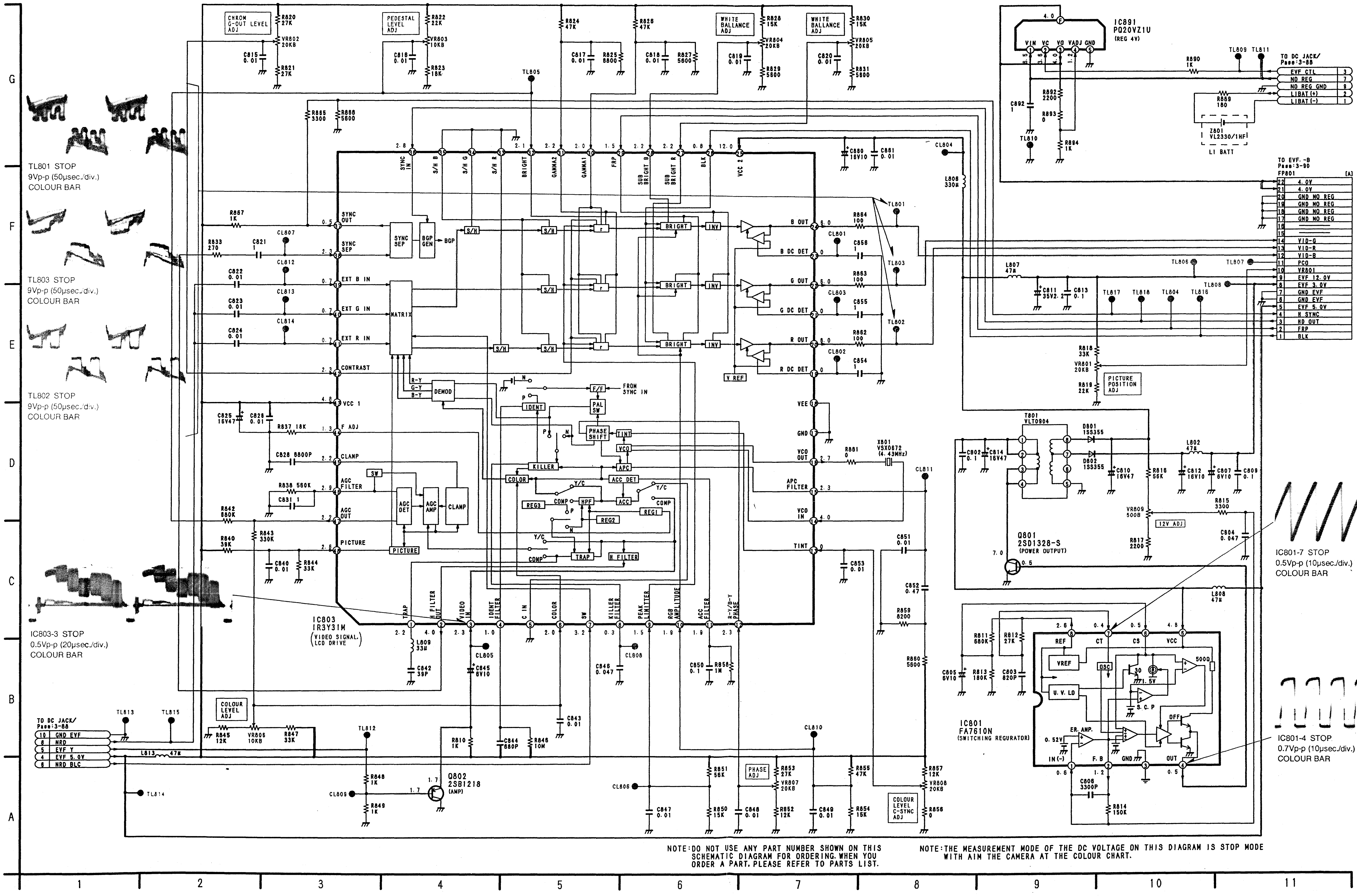

F
E
D
C
B
A
1
2
3
4
5
6
7
V. SIZE
FOCUS
SW1695
APS SW SENSOR
J1601
DC JACK
DC JACK SECTION
L1702
L1701
L1703
C1706
C1704
POWER SAVE
SW1695
ON
OFF
IC801
L1601
L804
E.V.F. SECTION
DC JACK SECTION

(COMPONENT SIDE)

(FOIL SIDE)

Back Page:
EVF / DC JACK Section

3-33. EVF-A SCHEMATIC DIAGRAM ; NV-SX50


MAIN SIGNAL PATH
IC891
PQ20VZ1U
(REG 4V)
VIN VC VO VADJ GND
TO DC JACK/
Page:3-88
EVF CTL
NO REG
NO REG GND
LIBAT (+)
LIBAT (-)
Z801
VL2330/1HF
LI BATT
TO EVF.-B
Page:3-90
FP801
4.0V
GND NO REG
VID-G
VID-R
VID-B
PCO
VR801
EVF 12.0V
EVF 3.0V
GND EVF
EVF 5.0V
H SYNC
HD OUT
FRP
BLK
CHROM G-OUT LEVEL ADJ
PEDESTAL LEVEL ADJ
WHITE BALLANCE ADJ
SYNC IN
S/H B
S/H G
S/H R
BRIGHT
GAMMA2
GAMMA1
FRP
SUB BRIGHT B
SUB BRIGHT R
BLK
VCC 2
SYNC OUT
SYNC SEP
EXT B IN
EXT G IN
EXT R IN
CONTRAST
VCC 1
F ADJ
CLAMP
AGC FILTER
AGC OUT
PICTURE
MATRIX
DEMOD
SYNC SEP
BGP GEN
AGC DET
AGC AMP
IDENT
PAL SW
PHASE SHIFT
TINT
VCO
APC
KILLER
COLOR
ACC DET
ACC
HPF
REG1
REG2
REG3
TRAP
H FILTER
B OUT
B DC DET
G OUT
G DC DET
R OUT
R DC DET
V REF
VEE
GND
VCO OUT
APC FILTER
VCO IN
TINT
X801
VSX0872
(4.43MHz)
TRAP
H FILTER OUT
VIDEO IN
IDENT FILTER
C IN
COLOR
SW
KILLER FILTER
PEAK LIMITTER
RGB AMPLITUDE
ACC FILTER
R-Y/B-Y PHASE
IC803
IR3Y31M
(VIDEO SIGNAL, LCD DRIVE)
COLOUR LEVEL ADJ
TO DC JACK/
Page:3-88
GND EVF
NRD
EVF Y
EVF 5.0V
NRD BLC
Q802
2SB1218
(AMP)
PHASE ADJ
COLOUR LEVEL C-SYNC ADJ
PICTURE POSITION ADJ
T801
VLT0904
D801
1SS355
D802
1SS355
12V ADJ
Q801
2SD1328-S
(POWER OUTPUT)
IC801
FA7610N
(SWITCHING REGURATOR)
REF
CT
CS
VCC
VREF
OSC
U.V.LO
ER.AMP.
S.C.P
IN(-)
F.B
GND
OUT
1 2 3 4 5 6 7 8 9 10 11
G F E D C B A

TL801 STOP
9Vp-p (50µsec./div.)
COLOUR BAR

TL803 STOP
9Vp-p (50µsec./div.)
COLOUR BAR

TL802 STOP
9Vp-p (50µsec./div.)
COLOUR BAR

IC803-3 STOP
0.5Vp-p (20µsec./div.)
COLOUR BAR

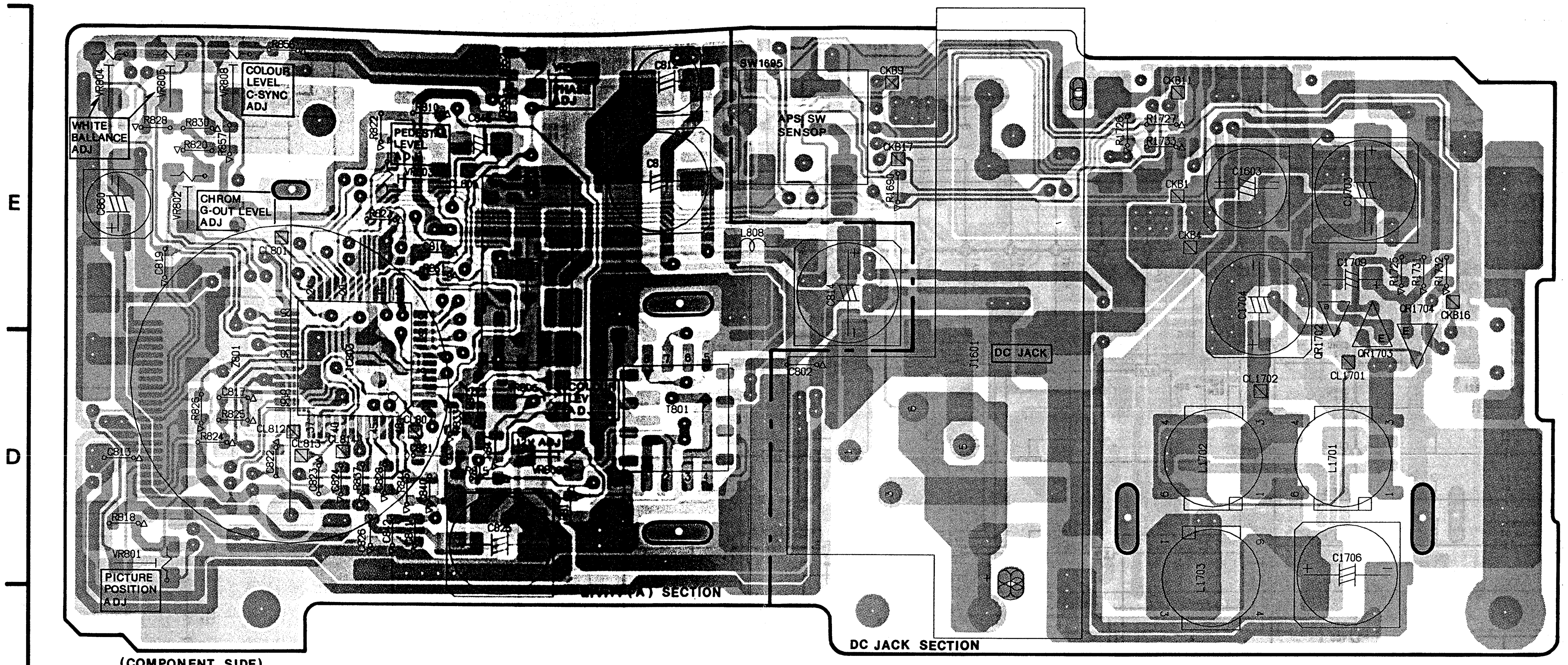
IC801-7 STOP
0.5Vp-p (10µsec./div.)
COLOUR BAR

IC801-4 STOP
0.7Vp-p (10µsec./div.)
COLOUR BAR

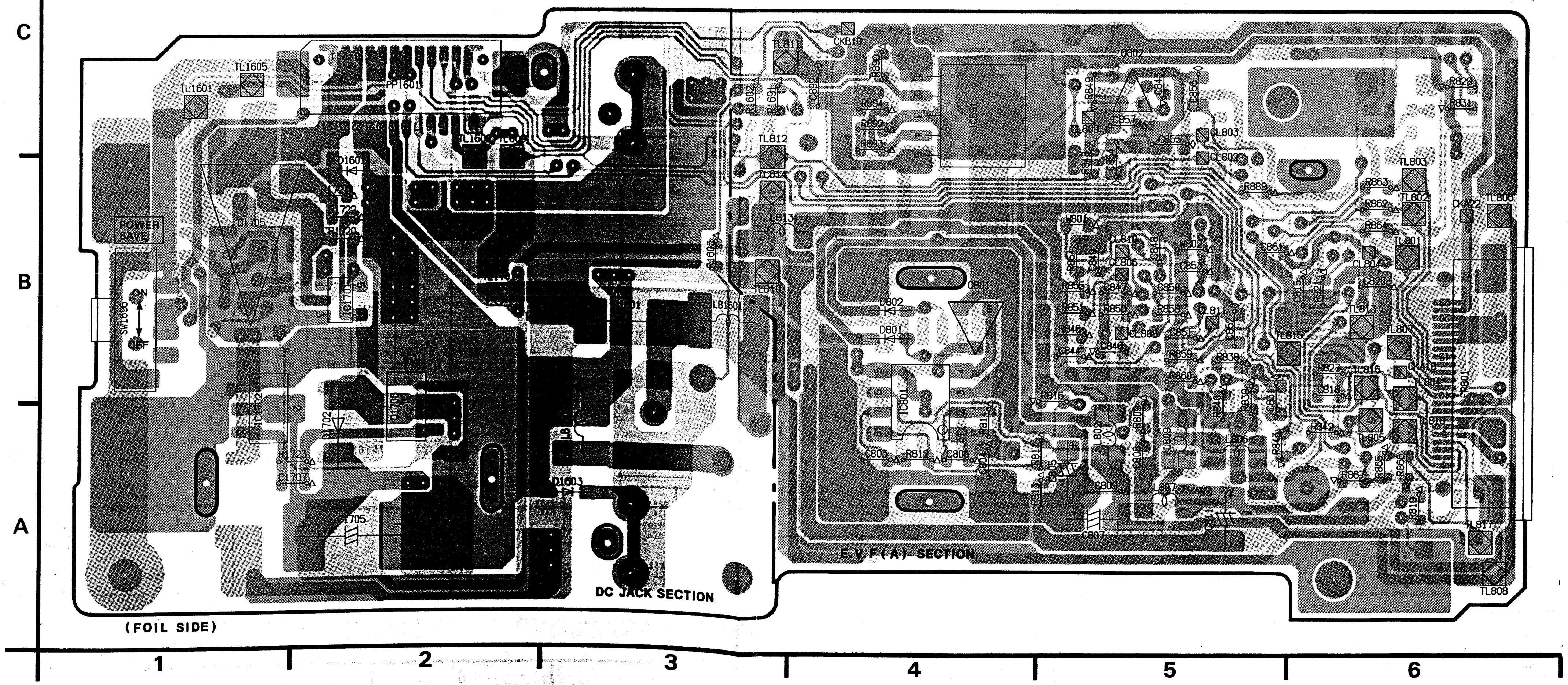
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE COLOUR CHART.

3-34. EVF-A [EVF-A, DC JACK Section] C.B.A. (VEP28245A) ; NV-SX50


E
D
WHITE BALLANCE ADJ
COLOUR LEVEL C-SYNC ADJ
CHROM G-OUT LEVEL ADJ
PEDESTAL LEVEL ADJ
PICTURE POSITION ADJ
VR801
VR802
VR804
VR805
VR808
T801
SW1695
APS SW SENSOR
J1601
DC JACK
L1701
L1702
L1703
C1703
C1704
C1706
QR1703
QR1704
E.V.F (A) SECTION
DC JACK SECTION

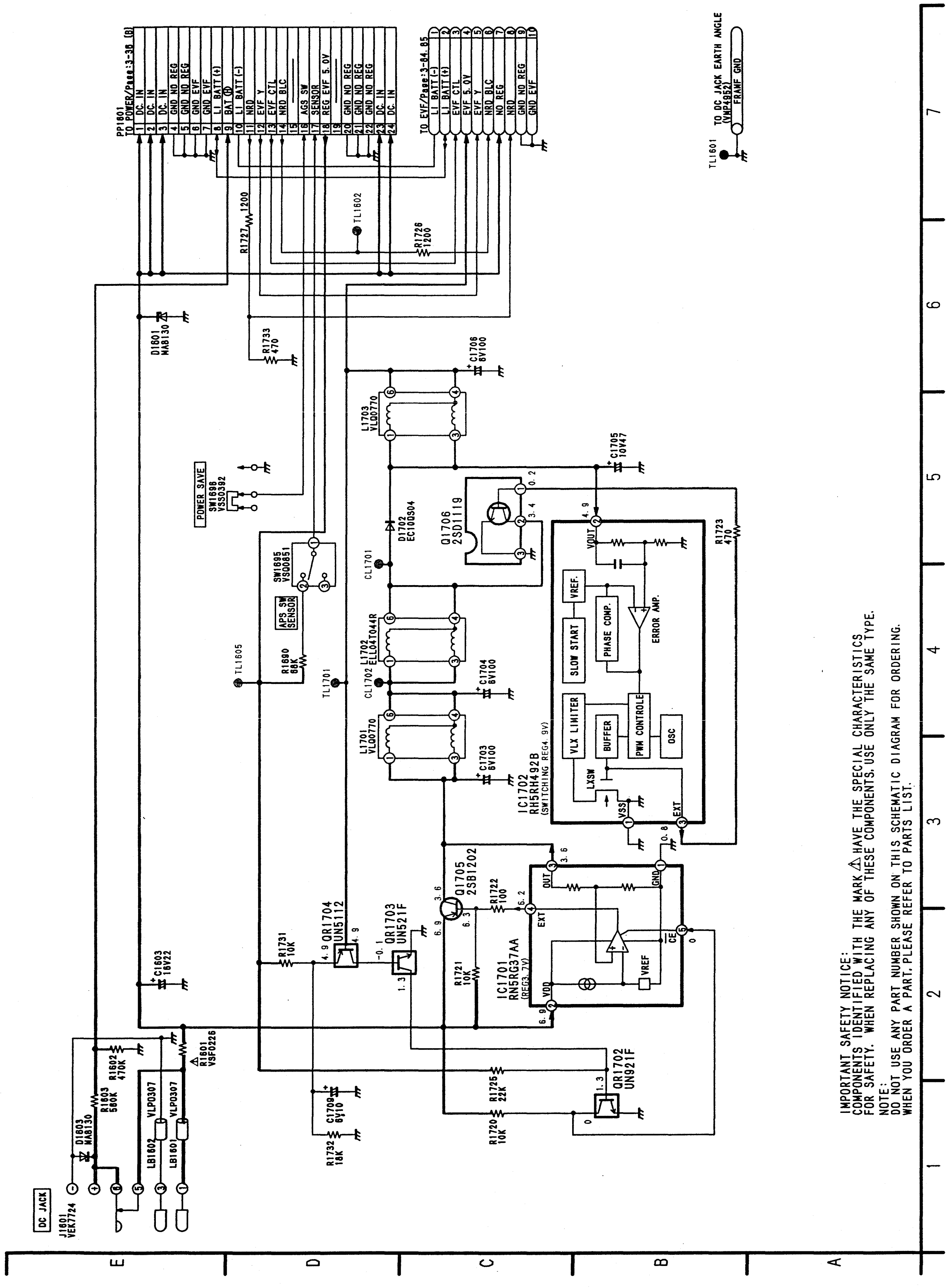
(COMPONENT SIDE)


C
B
A
1
2
3
4
5
6
POWER SAVE
SW1690
ON
OFF
TL1601
TL1605
IC1702
D1702
IC891
IC801
Q801
Q802
D801
D802
E.V.F (A) SECTION
DC JACK SECTION

(FOIL SIDE)

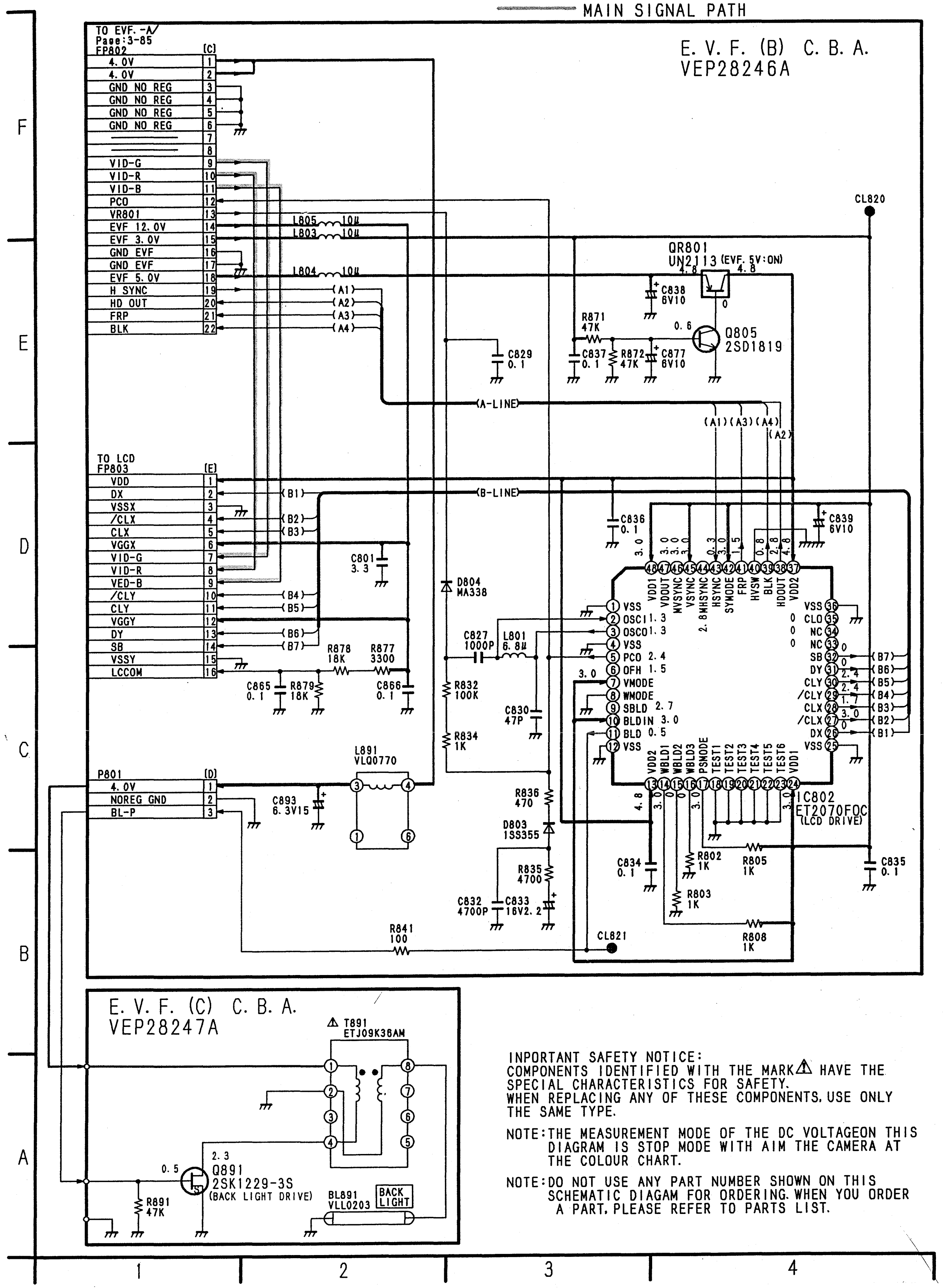
Back Page:
EVF (A) Section

3-35. DC JACK SCHEMATIC DIAGRAM ; NV-SX50


PP1801 TO POWER(Page:3-38 (B)
DC IN
GND NO REG
GND EVF
L1 BATT(+)
BAT
L1 BATT(-)
NRD
EVF Y
EVF CTL
NRD BLC
AGS SW
SENSOR
REG EVF 5.0V
TO EVF(Page:3-84,85
TO DC JACK EARTH ANGLE (VMP4852)
FRAME GND
TL1601
TL1602
R1727 1200
R1726 1200
D1801 MA8130
R1733 470
C1706 6V100
L1703 VLQ0770
C1705 10V47
Q1706 2SD1119
D1702 EC10QS04
CL1701
R1723 470
POWER SAVE
SW1698 VSS0382
SW1695 VSS0851
AGS SW SENSOR
VREF.
SLOW START
PHASE COMP.
ERROR AMP.
VLX LIMITER
BUFFER
PWM CONTROLE
OSC
LXSW
VSS
EXT
VOUT
L1702 ELL04T044R
CL1702
C1704 6V100
L1701 VLQ0770
C1703 6V100
IC1702 RH5RH492B (SWITCHING REG4.9V)
TL1605
R1890 68K
TL1701
Q1705 2SB1202
R1722 100
IC1701 RN5RG37AA (REG3.7V)
OUT
GND
CE
VDD
VREF
R1721 10K
QR1703 UN521F
QR1704 UN5112
R1731 10K
C1803 16V22
R1725 22K
R1720 10K
QR1702 UN921F
C1709 6V10
R1732 18K
R1801 VSF0226
R1802 470K
R1803 560K
D1803 MA8130
LB1802 VLP0307
LB1801 VLP0307
DC JACK
J1801 VEK724
E
D
C
B
A
1
2
3
4
5
6
7

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-36. EVF-B / EVF-C SCHEMATIC DIAGRAM ; NV-SX50

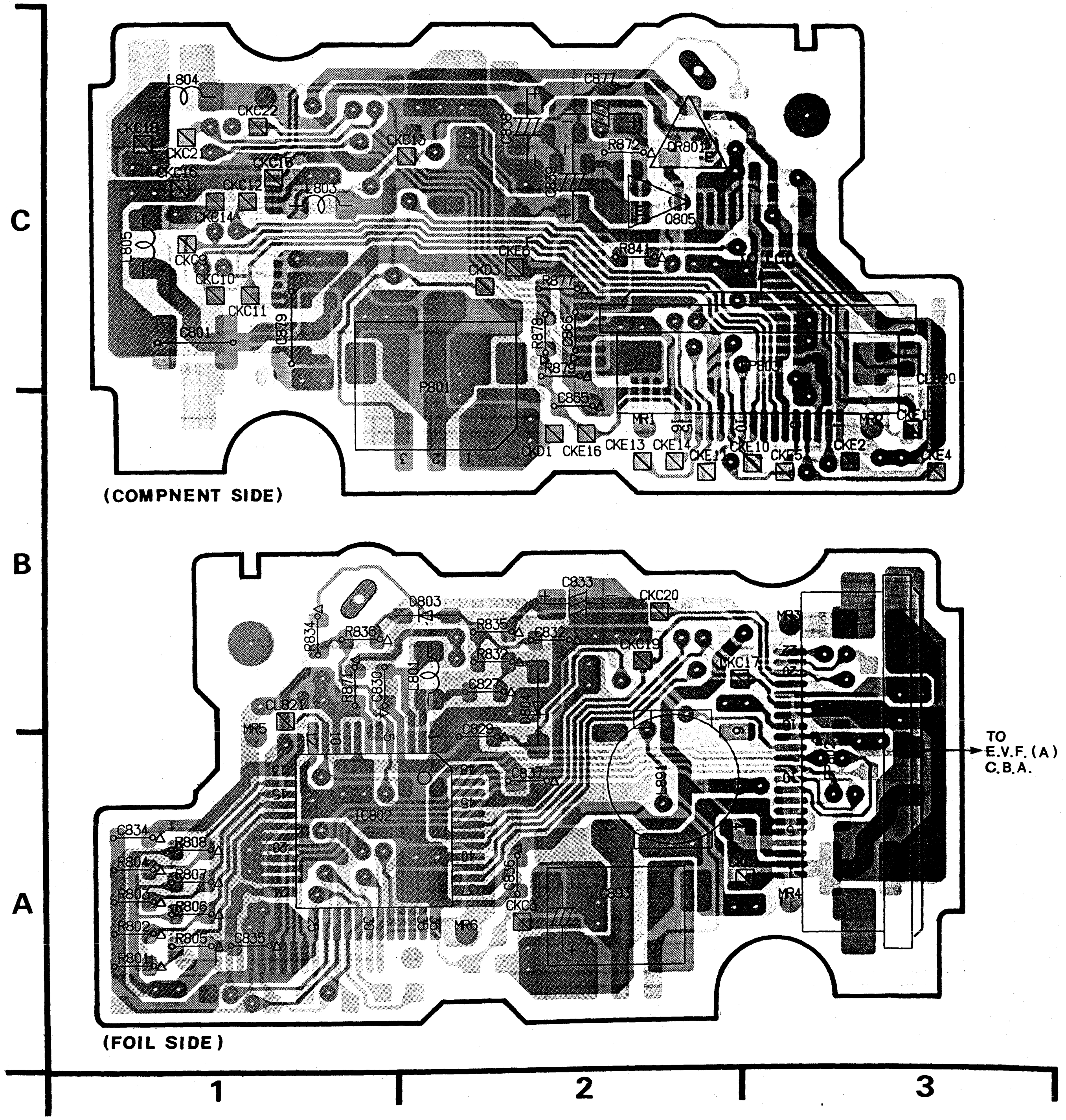

MAIN SIGNAL PATH
E. V. F. (B) C. B. A.
VEP28246A
TO EVF.-A/ Page:3-85 FP802
4. 0V
GND NO REG
VID-G
VID-R
VID-B
PCO
VR801
EVF 12. 0V
EVF 3. 0V
GND EVF
EVF 5. 0V
H SYNC
HD OUT
FRP
BLK
L805 10μ
L803 10μ
L804 10μ
CL820
QR801 UN2113 (EVF. 5V:ON)
C838 6V10
R871 47K
Q805 2SD1819
C829 0. 1
C837 0. 1
R872 47K
C877 6V10
A-LINE
B-LINE
TO LCD FP803
VDD
DX
VSSX
/CLX
CLX
VGGX
VED-B
/CLY
CLY
VGGY
DY
SB
VSSY
LCCOM
C836 0. 1
C839 6V10
C801 3. 3
D804 MA338
C827 1000P
L801 6. 8μ
R878 18K
R877 3300
C865 0. 1
R879 18K
C866 0. 1
R832 100K
C830 47P
R834 1K
L891 VLQ0770
P801
NOREG GND
BL-P
C893 6. 3V15
R836 470
D803 1SS355
R835 4700
C832 4700P
C833 16V2. 2
R841 100
CL821
C834 0. 1
R802 1K
R805 1K
R803 1K
R808 1K
C835 0. 1
IC802 ET2070FQC (LCD DRIVE)
E. V. F. (C) C. B. A.
VEP28247A
T891 ETJ09K36AM
Q891 2SK1229-3S (BACK LIGHT DRIVE)
R891 47K
BL891 VLL0203
BACK LIGHT
F
E
D
C
B
A
1
2
3
4

INPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGEON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE COLOUR CHART.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

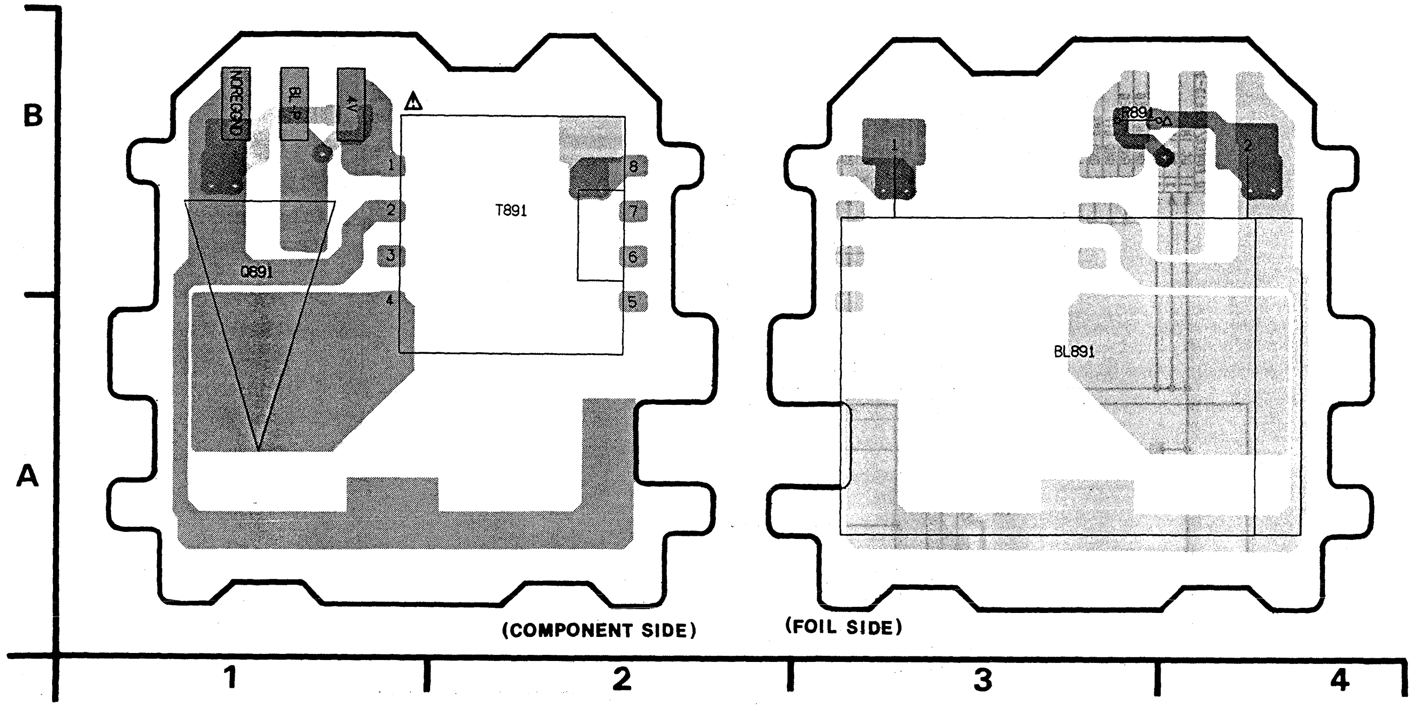
3-37. EVF-B C.B.A. (VEP28246A) ; NV-SX50


C
B
A
1
2
3
L804
CKC18
CKC22
CKC21
CKC15
CKC16
CKC13
CKC12
L803
CKC14
L805
CKC9
CKC10
CKC11
C801
C879
C877
R872
QR801
Q805
R841
CKE6
CKD3
R877
R878
R879
C866
C885
P801
QR803
CL820
MR1
CKD1
CKE16
CKE13
CKE14
CKE10
CKE5
CKE2
CKE4
C833
CKC20
D803
R835
C834
R836
C832
R832
CKC19
CKC17
R871
C830
L801
C827
CL821
C804
MR5
C829
C837
IC802
X801
C834
R808
R804
R807
R803
R806
R802
R805
C835
R801
C836
CKC5
C893
MR6
MR4
MR3
TO E.V.F. (A) C.B.A.

(COMPNENT SIDE)

(FOIL SIDE)

3-38. EVF-C C.B.A. (VEP28247A) ; NV-SX50


B
A
1
2
3
4
T891
Q891
BL891
1
2
3
4
5
6
7
8

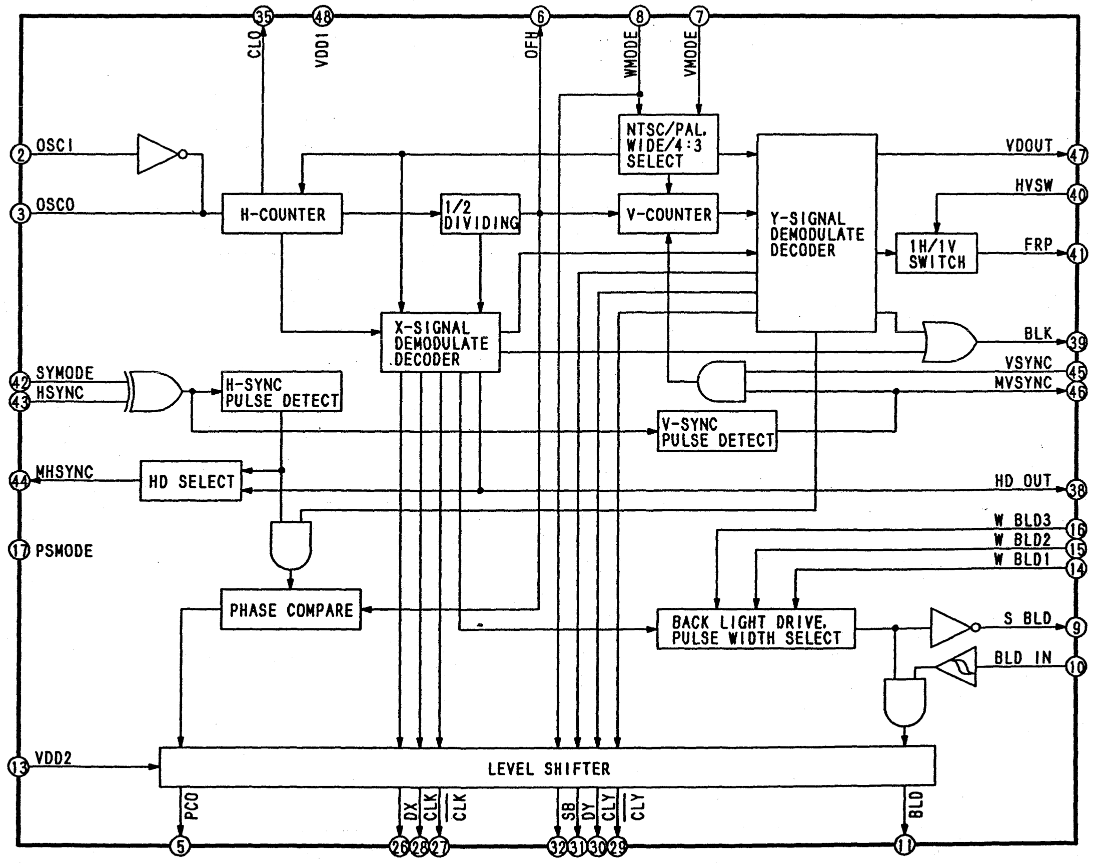
(COMPONENT SIDE)

(FOIL SIDE)

EVF - B IC BLOCK

IC 802 : ET2070FOC

(SCHAMATIC DIAGRAM : Page 3 - 89 / C - 4)

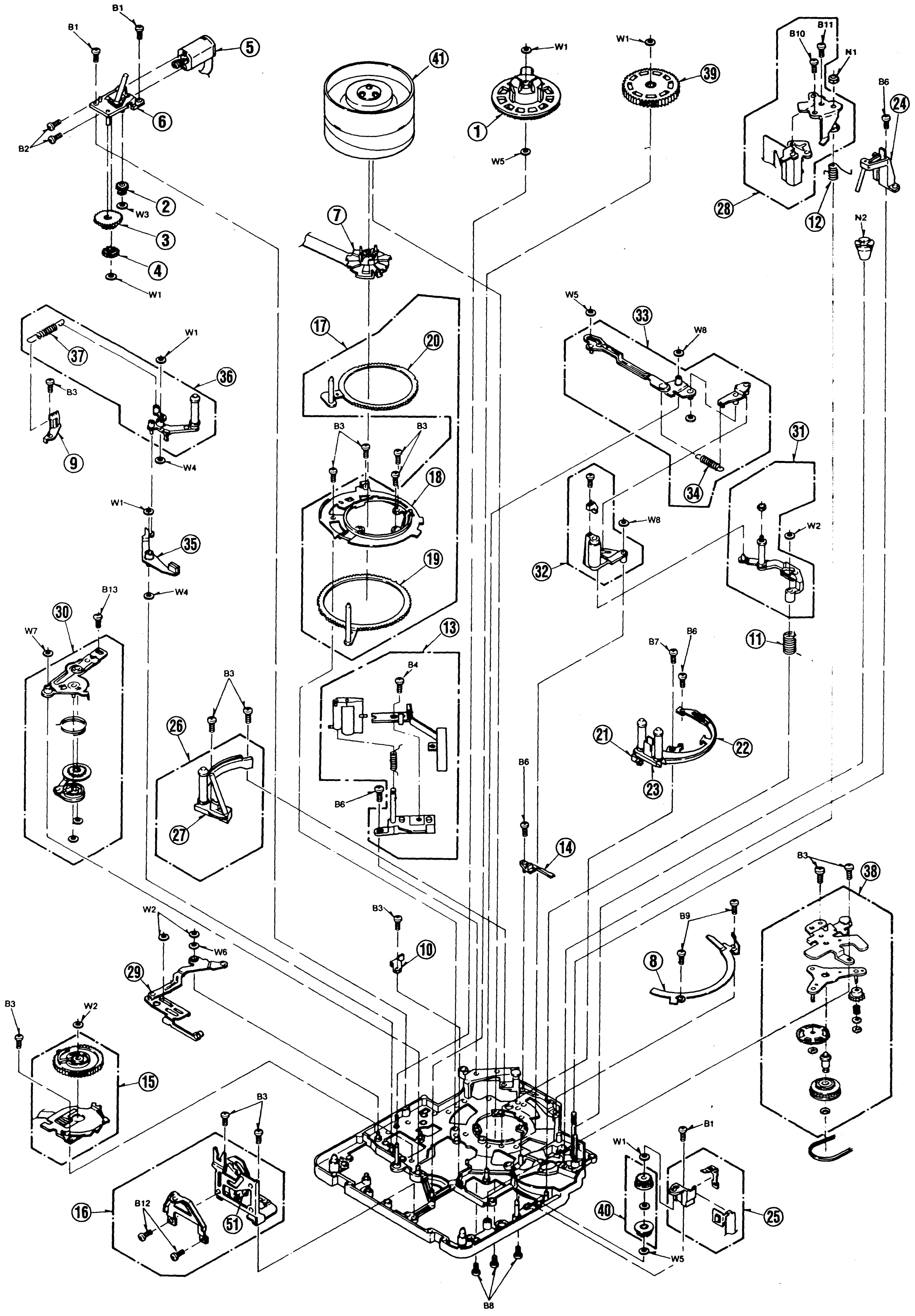

35 CLO
48 VDD1
6 OFH
8 WMODE
7 VMODE
2 OSCI
3 OSCO
H-COUNTER
1/2 DIVIDING
NTSC/PAL. WIDE/4:3 SELECT
V-COUNTER
Y-SIGNAL DEMODULATE DECODER
VDOUT 47
HVSW 40
1H/1V SWITCH
FRP 41
X-SIGNAL DEMODULATE DECODER
BLK 39
42 SYMODE
43 HSYNC
H-SYNC PULSE DETECT
VSYNC 45
MVSYNC 46
V-SYNC PULSE DETECT
44 MHSYNC
HD SELECT
HD OUT 38
17 PSMODE
W BLD3 16
W BLD2 15
W BLD1 14
PHASE COMPARE
BACK LIGHT DRIVE. PULSE WIDTH SELECT
S BLD 9
BLD IN 10
13 VDD2
LEVEL SHIFTER
PCO 5
DX 26
CLK 28
CLK 27
SB 32
DY 31
CLY 30
CLY 29
BLD 11

Back Page:
DC JACK, EVF (B),(C) Section

SECTION 4
EXPLODED VIEWS & PARTS LIST

4-1. EXPLODED VIEWS & MECHANICAL REPLACEMENT PARTS LIST

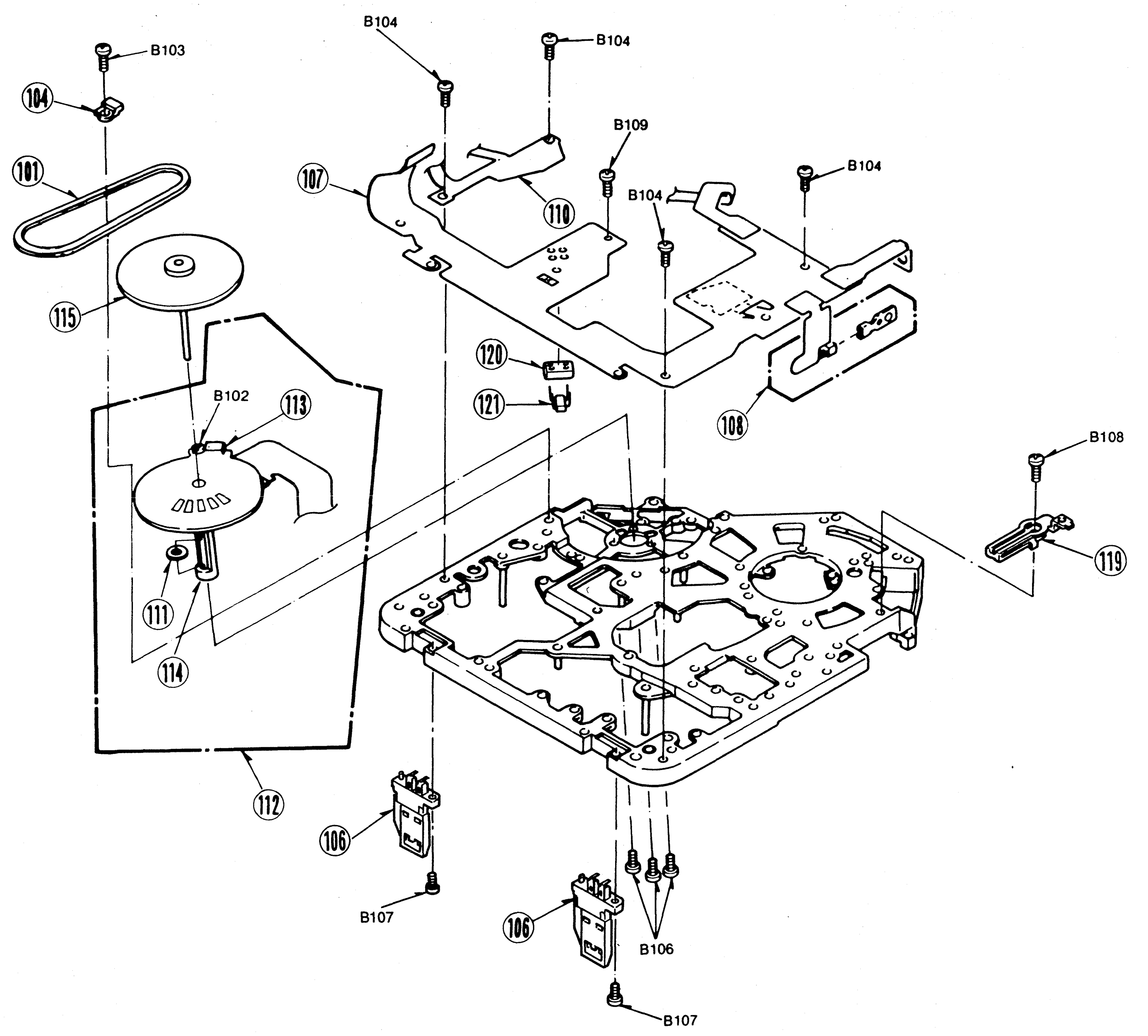
❶ VTR MECHANISM SECTION (1)



Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1 (1)	VDR0226	REEL BASE (S)	1	
2 (1)	VDG0821	BRAKE GEAR (A)	1	
3 (1)	VDG0823	BRAKE GEAR (C)	1	
4 (1)	VDG0822	BRAKE GEAR (B)	1	
5 (1)	VEM0417	LOADING MOTOR (1) U.	1	
6 (1)	VXA4527	MOTOR HOLDER U.	1	
7 (1)	VEK7073	RT CONNECTOR U.	1	
8 (1)	VMA8502	T-RING SLIDER	1	
9 (1)	VMA8505	TEN-REG. SPRING HOOK	1	
10 (1)	VMA8532	PENDULUM ARM HOLDER	1	
11 (1)	VMB2362	T3 ARM SPRING	1	
12 (1)	VMB2365	AC HEAD SPRING	1	
13 (1)	VXA5306	S-GUIDE STAND U.	1	
14 (1)	VMD1851	T-BOAT GUIDE	1	
15 (1)	VSR0096	MODE SWITCH U.	1	
16 (1)	VXA5001	LOCK BASE U.	1	
17 (1)	VXA4517	LOADING RING U.	1	
18 (1)	VMD1824	RING GUIDE	1	
19 (1)	VXA4518	T-RING U.	1	
20 (1)	VXA4519	S-RING U.	1	
21 (1)	VEK5549	LED U.	1	
22 (1)	VMD1828	T-RAIL	1	
23 (1)	VXA5260	T-BOAT U.	1	
24 (1)	VXA4528	T4 POST U.	1	
25 (1)	VXA4997	T-REEL SENSOR U.	1	
26 (1)	VXA5153	S-RAIL U.	1	
27 (1)	VXA5124	S-BOAT U.	1	
28 (1)	VXA5201	AC HEAD U.	1	
29 (1)	VXL2393	EJECT LEVER (1) U.	1	
30 (1)	VXL2401	SWING ARM U.	1	
31 (1)	VXL2431	T3 ARM (A) U.	1	
32 (1)	VXL2139	PINCH ARM U.	1	
33 (1)	VXL2140	PINCH DRIVE ARM U.	1	
34 (1)	VMB2363	PINCH PRESSURE SPRING	1	
35 (1)	VXL2144	PAD ARM U.	1	
36 (1)	VXL2145	TEN-REG. ARM U.	1	
37 (1)	VMB2364	TEN-REG. SPRING	1	
38 (1)	VXL2399	IDLER U.	1	
39 (1)	VXP1308	RELAY GEAR U.	1	
40 (1)	VXP1313	T-DRIVE GEAR U.	1	
41 (1)	VEG1144	CYLINDER U.	1	
51 (1)	VMB2369	LOCK SPRING	1	
B1 (1)	XQN14+B25FY	SCREW	3	
B2 (1)	XQN14+A14	SCREW	2	
B3 (1)	XQN14+B2	SCREW	13	
B4 (1)	XQN14+BJ35	SCREW	1	
B6 (1)	XQN14+CF4	SCREW	4	
B7 (1)	XQN14+C5	SCREW	1	
B8 (1)	XQN14+C35R	SCREW	3	
B9 (1)	VHD0711	SCREW	2	
B10 (1)	VHD0700	SCREW	1	
B11 (1)	VHD0699	SCREW	1	
B12 (1)	XQN14+C2	SCREW	2	
B13 (1)	VHD0707	SCREW	1	
N1 (1)	VHN0047	NUT	1	
N2 (1)	VHN0175	NUT	1	
W1 (1)	VMX2027	WASHER	6	
W2 (1)	VMX2026	WASHER	4	
W3 (1)	VMX2051	WASHER	1	
W4 (1)	XWGV12Z3G	WASHER	2	
W5 (1)	XWGV12Y3G	WASHER	3	
W6 (1)	XWGV0007	WASHER	1	
W7 (1)	VMX2366	WASHER	1	
W8 (1)	VMX2359	CUT WASHER	2	

❷ VTR MECHANISM SECTION (2)

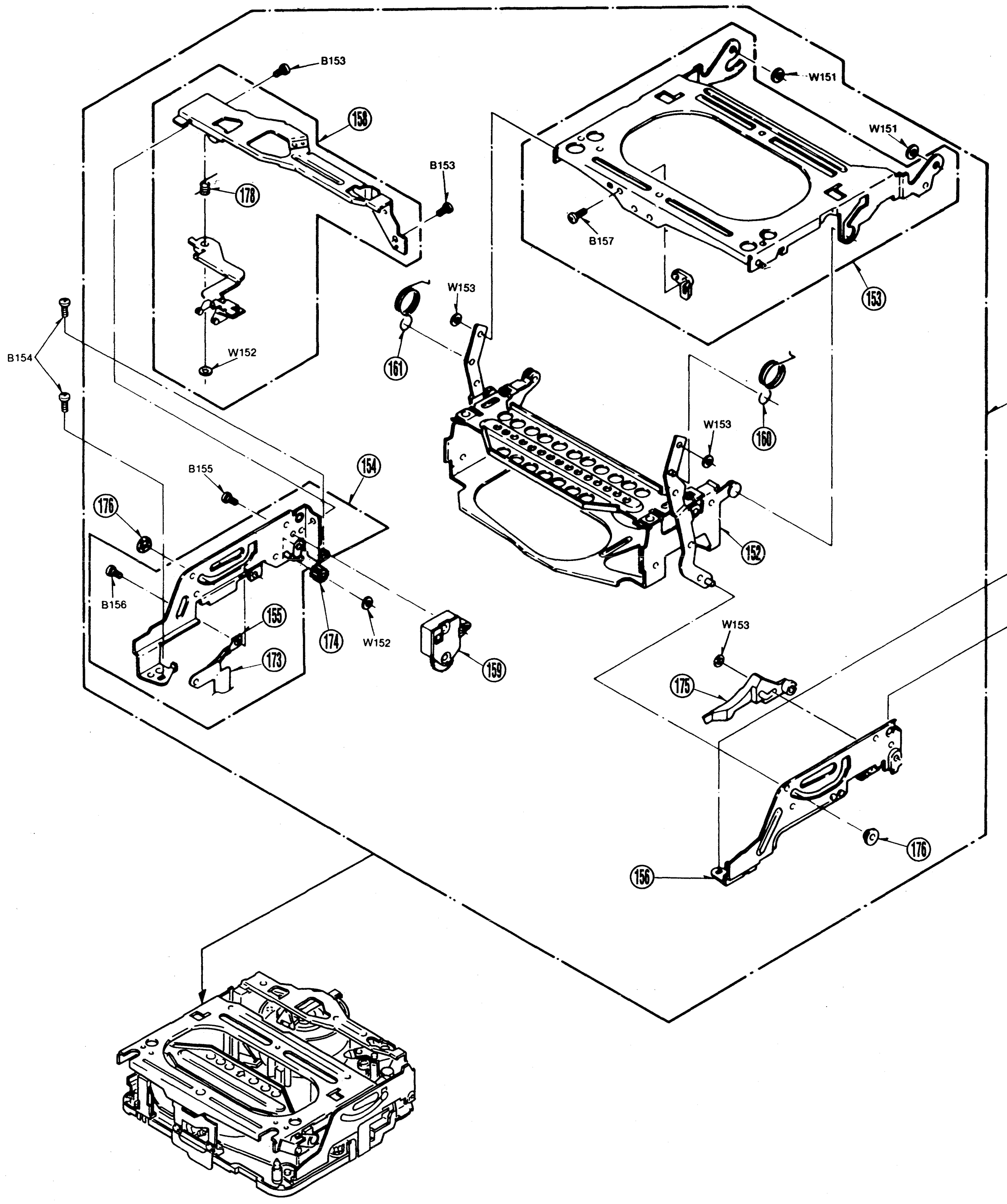

B103
104
101
115
B104
107
B104
110
B109
B104
B104
120
121
108
B102
113
111
114
112
B108
119
106
B107
106
B106
B107

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
101 (2)	VDV0232	CAPSTAN BELT	1	
104 (2)	VMD1846	CAPSTAN STOPPER	1	
106 (2)	VSH0065	REC SAFETY SW U.	2	
107 (2)	VWJ0878	MECH. FLEXIBLE CARD	1	
108 (2)	VXA4511	PHOTO (L) U.	1	
110 (2)	VXA4997	T-REEL SENSOR U.	1	
111 (2)	VDB1129	LOWER BEARING	1	
112 (2)	VEK7314	STATOR U.	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
113 (2)	VBK0059	MR HEAD	1	
114 (2)	VXD0134	HOUSING U.	1	
115 (2)	VXP1303	ROTOR U.	1	
119 (2)	VMP4923	H. A. EARTH PLATE	1	
120 (2)	VMD1842	REEL SENSOR MOUNT	1	
121 (2)	ON2170-LM	REEL SENSOR	1	
B102 (2)	VHD0593	SCREW	1	
B103 (2)	XQN14+B25FY	SCREW	1	
B104 (2)	XQN14+C2R	SCREW	4	
B106 (2)	XQN14+A3	SCREW	3	
B107 (2)	XQN14+CF4	SCREW	2	
B108 (2)	XQN14+C2	SCREW	1	
B109 (2)	VHD0875	SCREW	1	

❸ VTR MECHANISM SECTION (3)

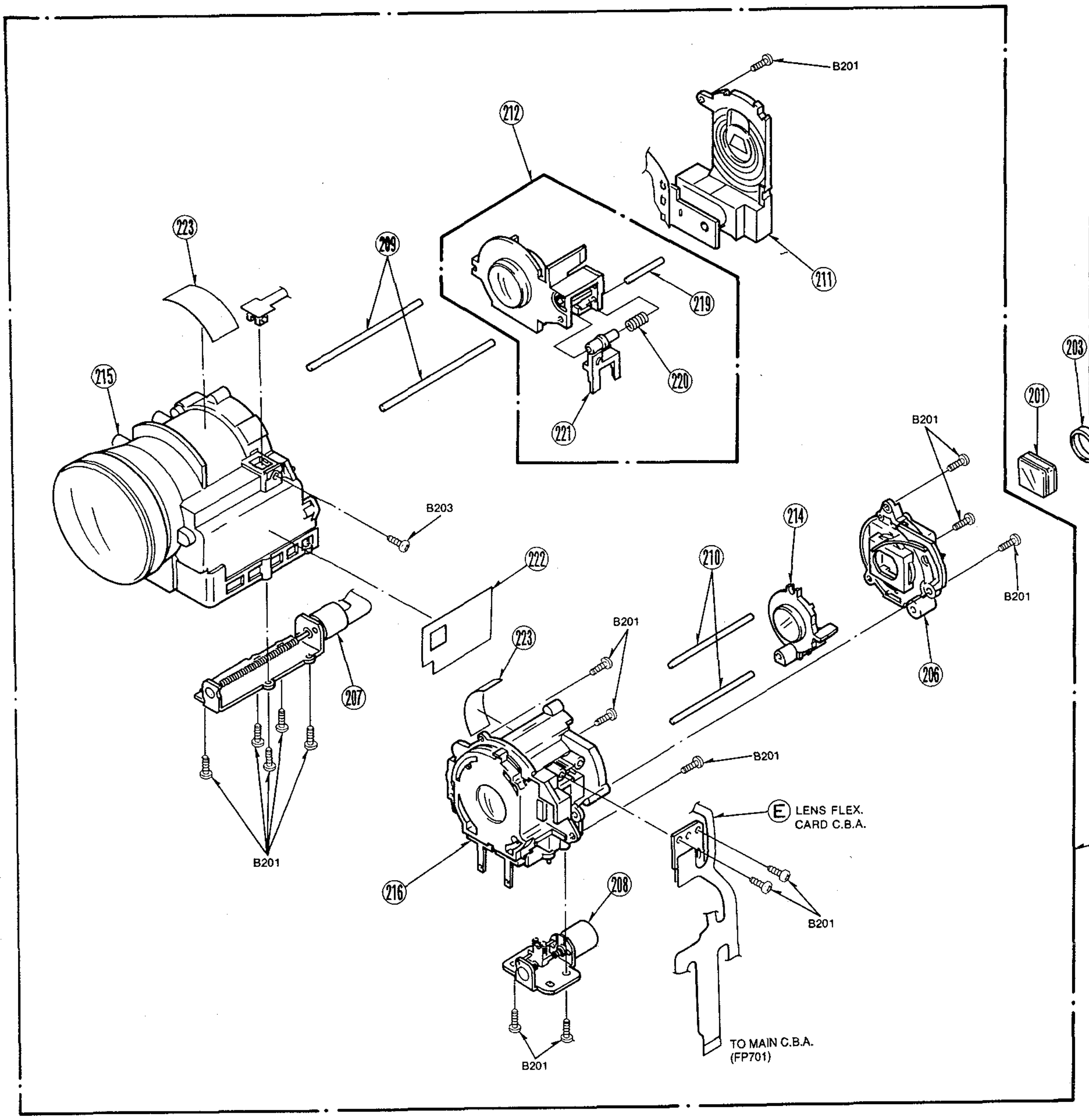

B153
158
W151
W151
B153
178
B157
153
W153
161
W152
B154
151
160
W153
B155
154
176
152
B156
155
174
W152
173
159
B154
W153
175
176
156

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
151 (3)	VXA5725	GARAGE U.	1	
152 (3)	VXA5199	HOLDER U.	1	
153 (3)	VXA4863	GARAGE (1) U.	1	
154 (3)	VXA4510	STAND (L) U.	1	
155 (3)	VXA4511	PHOTO (L) U.	1	
156 (3)	VXA5000	STAND (R) U.	1	
158 (3)	VXL2222	TAPE GUIDE U.	1	
159 (3)	VXP1472	DUMPER	1	
160 (3)	VMB2367	UP SPRING (R)	1	
161 (3)	VMB2368	UP SPRING (L)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
173 (3)	VWJ0548	PHOTO FLEX. CARD	1	
174 (3)	VDG0827	DUMPER RELAY GEAR	1	
175 (3)	VML2580	TAPE OPEN LEVER	1	
176 (3)	VDP1406	ARM HOLDER	2	
178 (3)	VMB2498	TAPE GUIDE SPRING	1	
B153 (3)	XQN14+BF2	SCREW	2	
B154 (3)	VHD0838	SCREW	4	
B155 (3)	XQN16+AJ8	SCREW	1	
B156 (3)	XQN14+CM2	SCREW	1	
B157 (3)	XQS14+A25FZ	SCREW	1	
W151 (3)	VMX1042	WASHER	2	
W152 (3)	VMX1061	WASHER	2	
W153 (3)	XWGV0006	WASHER	3	

❹ CAMERA LENS SECTION

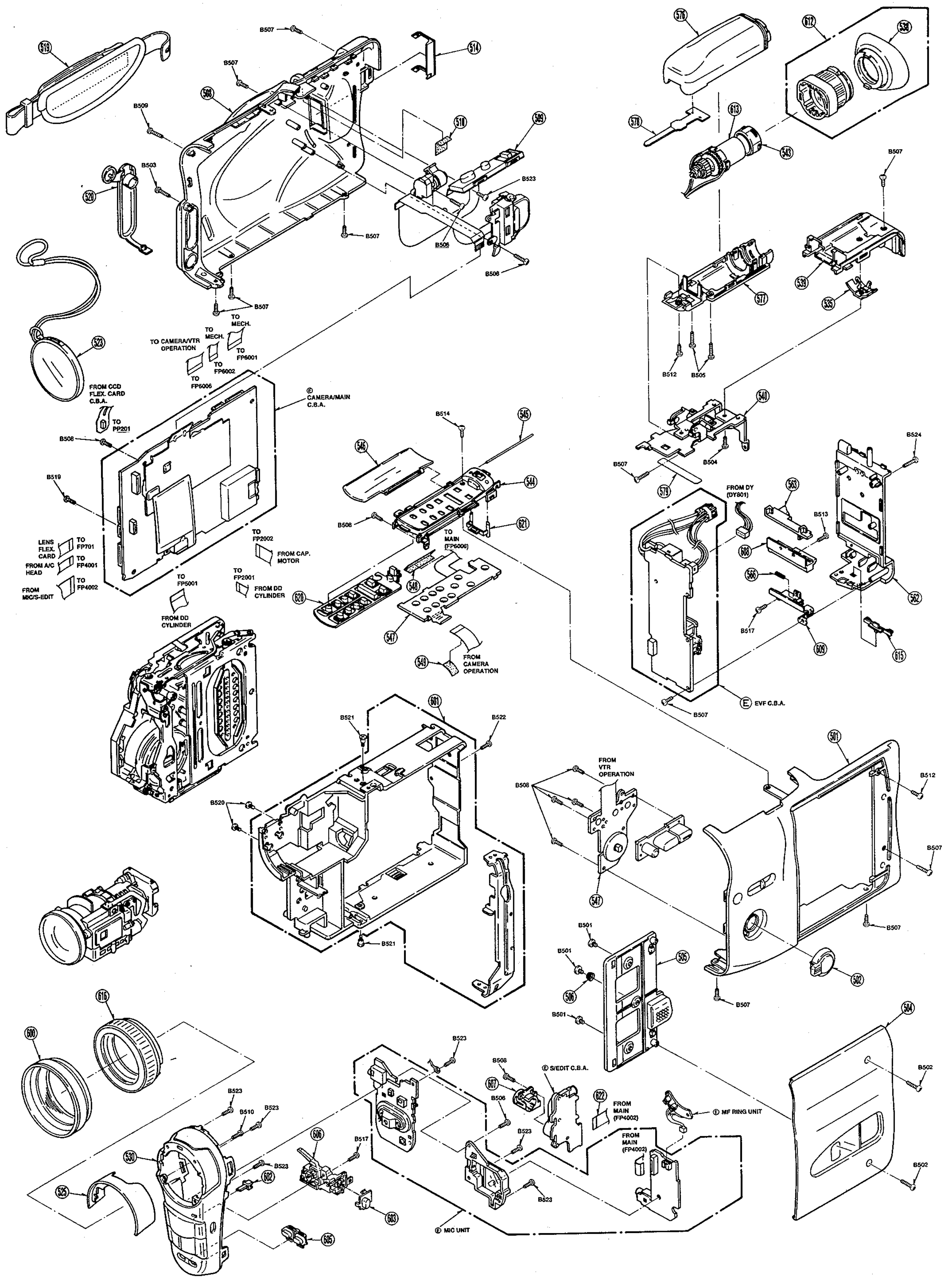

B201
212
202
223
209
B202
218
211
219
215
203
201
220
221
B201
B203
214
B201
222
210
E CCD FLEX. CARD C.B.A.
B201
223
206
207
B201
E LENS FLEX. CARD C.B.A.
204
B201
216
208
B201
TO MAIN C.B.A. (FP701)
B201

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
201 (4)	VDL0421	CRYSTAL FILTER	1	
202 (4)	VEK7975	CCD UNIT	1	
203 (4)	VMX2376	CCD CUSHION	1	
204 (4)	VXW0322	LENS U.	1	
206 (4)	VDW0319	CRYSTAL MOUNT PLATE	1	
207 (4)	VEM0601	ZOOM MOTOR U.	1	
208 (4)	VEM0451	FOCUS MOTOR U.	1	
209 (4)	VMS5735	Z GUIDE POLE	2	
210 (4)	VMS5736	F GUIDE POLE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
211 (4)	VXL2445	IRIS U.	1	
212 (4)	VXP1554	2ND. MOVING FRAME U.	1	
214 (4)	VXP1555	4TH. MOVING FRAME U.	1	
215 (4)	VXQ0440	MAIN FRAME U.	1	
216 (4)	VXQ0441	3RD. LENS FRAME U.	1	
218 (4)	VSC3671	CCD SHIELD CASE	1	
219 (4)	VMS5734	RACK G. P	1	
220 (4)	VMB2796	2ND. SPRING	1	
221 (4)	VML2911	2ND. RACK	1	
222 (4)	VMA9343	PLUMBIC SHEET (A)	1	
223 (4)	VMA9344	PLUMBIC SHEET (B)	1	
B201 (4)	XQN16+CJ5	SCREW	15	
B202 (4)	XQN16+CJ6	SCREW	2	
B203 (4)	VHD0852	SCREW	1	

❺ FRAME & CASING PARTS SECTION ; NV-SX30

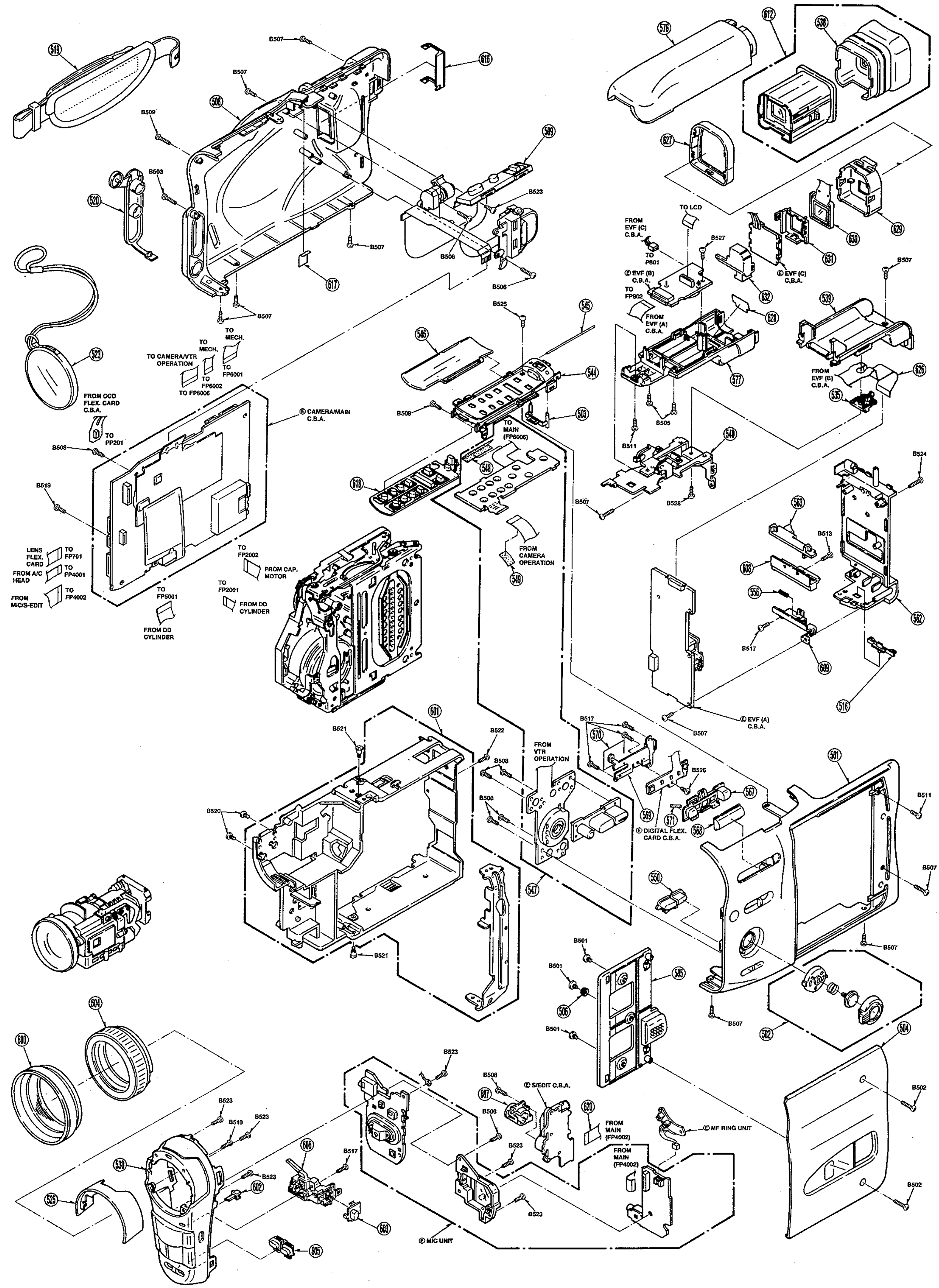

519
B507
B507
568
514
B509
518
509
B503
B523
520
B507
B506
B506
B507
523
TO MECH.
TO MECH.
TO CAMERA/VTR OPERATION
TO FP6001
TO FP6002
TO FP6006
FROM CCD FLEX. CARD C.B.A.
TO PP201
Ⓔ CAMERA/MAIN C.B.A.
B508
B519
LENS FLEX. CARD
TO FP701
FROM A/C HEAD
TO FP4001
FROM MIC/S-EDIT
TO FP4002
TO FP5001
FROM DD CYLINDER
TO FP2002
FROM CAP. MOTOR
TO FP2001
FROM DD CYLINDER
576
612
534
578
613
543
B507
577
539
535
B512
B505
540
B507
B504
579
B524
FROM DY (DY801)
563
B513
608
566
562
B517
609
615
Ⓔ EVF C.B.A.
B507
B514
545
546
544
B508
621
TO MAIN (FP6006)
620
548
547
549
FROM CAMERA OPERATION
601
B521
B522
B520
B521
FROM VTR OPERATION
B508
547
501
B512
B507
B507
502
B501
B501
505
506
B501
B507
504
B502
B502
616
600
B523
B523
B510
B523
530
525
B523
602
606
B517
603
605
B508
607
Ⓔ S/EDIT C.B.A.
622
FROM MAIN (FP4002)
Ⓔ MF RING UNIT
B506
B523
FROM MAIN (FP4002)
B523
Ⓔ MIC UNIT

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
501 (5)	VKM4800	SIDE CASE (R)	1	
502 (5)	VXU1468	AE DIAL U.	1	
504 (5)	VYK7988	CASSETTE COVER (1) U.	1	
505 (5)	VGU7177	CASSETTE LOCK BUTTON	1	
506 (5)	VMB2604	CASSETTE COIL SPRING	1	
508 (5)	VYK7974	SIDE CASE (L)(1) U.	1	
509 (5)	VXU1476	S/S ZOOM EJECT U.	1	
510 (5)	VGQ4225	ZOOM BARRIER	1	
514 (5)	VKF2704	S/S HOLDER COVER	1	
519 (5)	VYC0618	GRIP BELT U.	1	
520 (5)	VKF2602	AV JACK COVER	1	
523 (5)	VYF2157	HOOD COVER U.	1	
525 (5)	VGQ4231	LENS COVER	1	
530 (5)	VYK7978	FRONT CASE (1) U.	1	
535 (5)	VGQ4136	EVF LOCK PIECE	1	
538 (5)	VMG0631	EYE CAP	1	
539 (5)	VKM4470	EVF MOUNT PANEL	1	
540 (5)	VYK6784	EVF ROTARY ANGLE U.	1	
543 (5)	M01LGM07WB02	CRT	1	
544 (5)	VYK7970	TOP PANEL (1) U.	1	
545 (5)	VMS6103	SHAFT	1	
546 (5)	VKF2590	VTR DOOR	1	
547 (5)	VEK8113	CAMERA/VTR OPEATION U.	1	
548 (5)	VGQ2759	FLEX. BARRIER	1	
549 (5)	VGQ3355	FLEX. BARRIER	1	
550 (5)	VMC1223	VTR DOOR SPRING	1	
562 (5)	VKM4804	REAR CASE	1	
563 (5)	VGQ4118	BATTERY LOCK	1	
566 (5)	VMB2386	BATTERY LOCK SPRING	1	
576 (5)	VKM4474	EVF CASE (UPPER)	1	
577 (5)	VKM4475	EVF CASE (LOWER)	1	
578 (5)	VGQ4228	EVF BLINDER BARRIER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
579 (5)	VGQ4226	EVF WIRE BARRIER	1	
600 (5)	VYQ1397	LENS HOOD U.	1	
601 (5)	VYQ1459	MAIN FRAME U.	1	
602 (5)	VGL0737	TALLY PANEL LIGHT	1	
603 (5)	VGU7451	DIS BUTTON	1	
605 (5)	VGU7450	MF SELECT BUTTON	1	
606 (5)	VGQ4658	DIS BUTTON HOLDER	1	
607 (5)	VGQ4236	JACK HOLD PIECE	1	
608 (5)	VGQ2607	BATTERY LOCK HOLDER	1	
609 (5)	VMP4948	BATTERY LOCK HOLD ANGLE	1	
612 (5)	VYK6780	FINDER CASE U.	1	
613 (5)	ELY05V584A	DY	1	
615 (5)	VGU7207	AGS KNOB	1	
616 (5)	VXP1828	MF RING U.	1	
620 (5)	VGU7766	VTR OPERATION BUTTON	1	
621 (5)	VGL0725	TOP PANEL LIGHT	1	
622 (5)	VXP1828	MF U.	1	
B501 (5)	VHD0794	SCREW	3	
B502 (5)	XQN2+CF7FZ	SCREW	2	
B503 (5)	XQN2+CJ12FZ	SCREW	1	
B504 (5)	XQN16+C035	SCREW	1	
B505 (5)	XQN16+CG8FZ	SCREW	2	
B506 (5)	XQN2+CJ8	SCREW	3	
B507 (5)	XQN2+CJ6FZ	SCREW	11	
B508 (5)	XQN2+CJ6	SCREW	13	
B509 (5)	XQN2+CJ8FZ	SCREW	1	
B510 (5)	XQN16+CJ4	SCREW	1	
B512 (5)	XQN2+CF4FZ	SCREW	2	
B513 (5)	XQN2+BF4	SCREW	1	
B514 (5)	XQN2+CG6FZ	SCREW	1	
B517 (5)	XQN2+CJ4	SCREW	2	
B519 (5)	XTB2+4F	SCREW	1	
B520 (5)	VHD1054	SCREW	2	
B521 (5)	VHD0713	SCREW	2	
B522 (5)	XQN2+C3	SCREW	1	
B523 (5)	XQN2+CJ5	SCREW	1	
B524 (5)	XQN2+CF12FZ	SCREW	1	

❺ FRAME & CASING PARTS SECTION ; NV-SX50

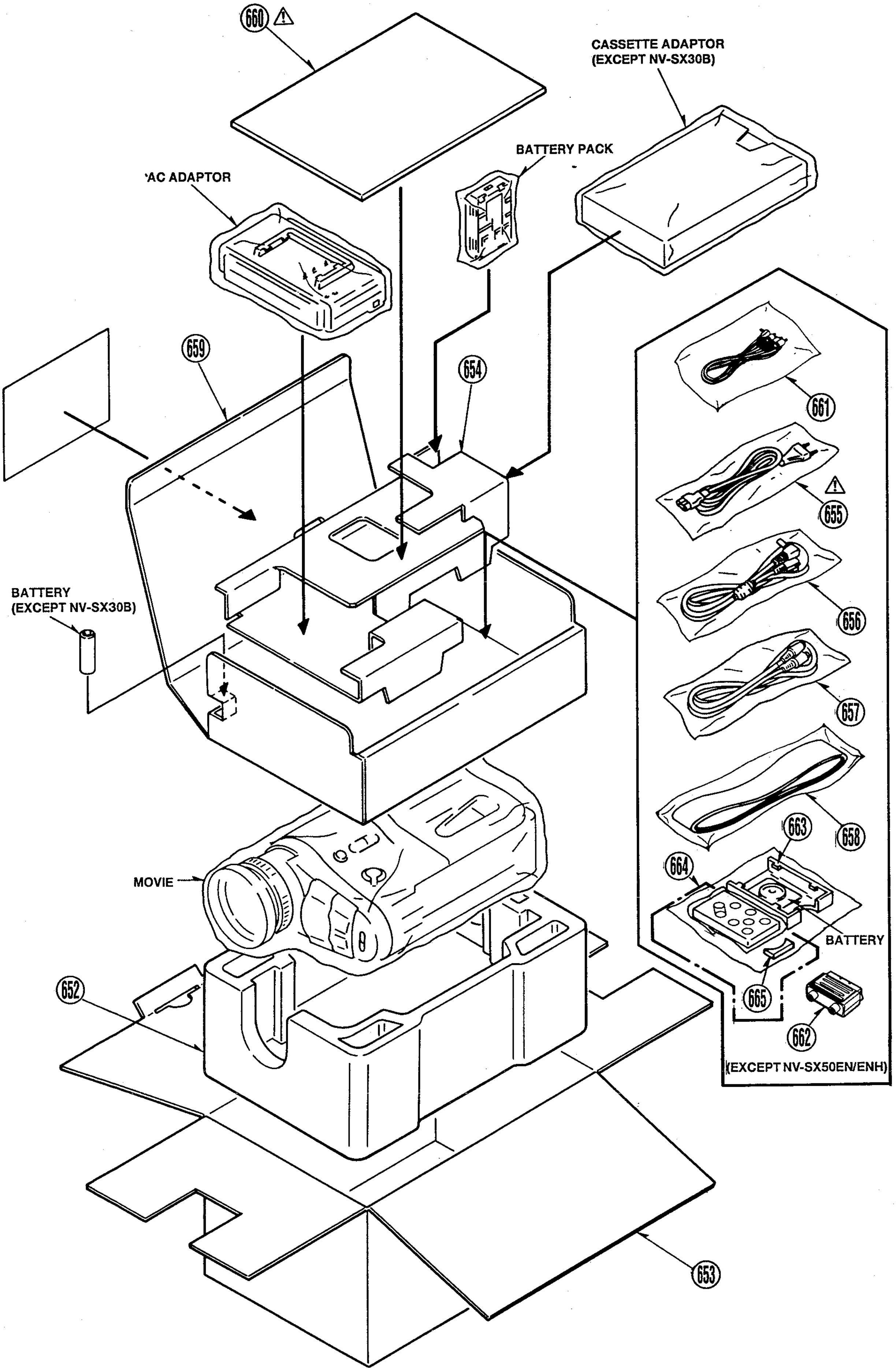

519
B507
B507
568
B509
616
576
612
538
627
589
B503
520
B523
B506
B507
617
B506
B507
TO LCD
FROM EVF (C) C.B.A.
TO P801
B527
Ⓔ EVF (B) C.B.A.
TO FP802
632
631
Ⓔ EVF (C) C.B.A.
630
629
B507
FROM EVF (A) C.B.A.
628
539
577
FROM EVF (B) C.B.A.
626
535
B525
545
546
544
523
TO MECH.
TO MECH.
TO CAMERA/VTR OPERATION
TO FP6001
TO FP6002
TO FP6006
FROM CCD FLEX. CARD C.B.A.
TO PP201
Ⓔ CAMERA/MAIN C.B.A.
B508
503
TO MAIN (FP6006)
B505
B511
540
B507
B528
B524
548
618
B519
LENS FLEX. CARD
TO FP701
FROM A/C HEAD
TO FP4001
FROM MIC/S-EDIT
TO FP4002
TO FP5001
FROM DD CYLINDER
TO FP2002
FROM CAP. MOTOR
TO FP2001
FROM DD CYLINDER
FROM CAMERA OPERATION
549
563
B513
608
556
562
B517
609
516
Ⓔ EVF (A) C.B.A.
B507
601
B521
B522
B508
FROM VTR OPERATION
B517
570
B526
567
501
B511
B520
B508
569
571
568
Ⓔ DIGITAL FLEX. CARD C.B.A.
547
550
B507
B521
B501
B501
505
B507
506
B501
B507
502
504
604
600
B523
B508
607
Ⓔ S/EDIT C.B.A.
620
FROM MAIN (FP4002)
Ⓔ MF RING UNIT
B502
B523
B510
B523
B506
B523
FROM MAIN (FP4002)
530
606
B517
B523
602
525
603
B523
605
Ⓔ MIC UNIT
B502

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
501 (5)	VKM4778	SIDE CASE (R)	1	NV-SX50EG
501 (5)	VKM4807	SIDE CASE (R)	1	NV-SX50EN/ENH
502 (5)	VXU1479	AE DIAL U.	1	
503 (5)	VGL0725	TOP PANEL LIGHT	1	
504 (5)	VYK7989	CASSETTE COVER (1) U.	1	NV-SX50EG/B
504 (5)	VYK8012	CASSETTE COVER (1) U.	1	NV-SX50EN/ENH
505 (5)	VGU7177	CASSETTE LOCK BUTTON	1	
506 (5)	VMB2604	CASSETTE COIL SPRING	1	
508 (5)	VYK7976	SIDE CASE (L) (1) U.	1	
509 (5)	VXU1476	S/S. ZOOM. EJECT U.	1	
516 (5)	VGU7207	AGS KNOB	1	
519 (5)	VYC0618	GRIP BELT U.	1	
520 (5)	VKF2602	AV JACK COVER	1	
523 (5)	VYF2157	HOOD COVER U.	1	
525 (5)	VGQ4231	LENS COVER	1	
530 (5)	VYK7980	FRONT CASE (1) U.	1	
535 (5)	VGQ4173	EVF LOCK PIECE	1	
538 (5)	VMG0996	EYE CAP	1	
539 (5)	VKM4415	EVF MOUNT PANEL	1	
540 (5)	VYK6784	EVF ROTARY ANGLE U.	1	
544 (5)	VYK7972	TOP PANEL (1) U.	1	
545 (5)	VMS6103	DOOR SHAFT	1	
546 (5)	VKF2590	VTR DOOR	1	
547 (5)	VEK8211	CAMERA/VTR OPERATION U.	1	
548 (5)	VGQ2759	FLEX. BARRIER	1	
549 (5)	VGQ3355	FLEX. BARRIER	1	
550 (5)	VGU7638	MEMORY BUTTON	1	
562 (5)	VKM4782	REAR CASE	1	
563 (5)	VGQ4118	BATTERY LOCK	1	
566 (5)	VMB2386	BATTERY LOCK SPRING	1	
567 (5)	VGU7579	DIGITAL MODE BUTTON	1	
568 (5)	VKW2406	INDICATION WINDOW	1	
569 (5)	VMP5419	DIGITAL LED PLATE	1	
570 (5)	VGQ4622	DIGITAL LED BARRIER	1	
571 (5)	VGQ4709	DIGITAL BUTTON BARRIER	1	
576 (5)	VKM4780	EVF CASE (UPPER)	1	
577 (5)	VKM4781	EVF CASE (LOWER)	1	
600 (5)	VYQ1397	LENS HOOD U.	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
601 (5)	VYQ1459	MAIN FRAME U.	1	
602 (5)	VGL0737	TALLY PANEL LIGHT	1	
603 (5)	VGU7451	DIS BUTTON	1	
604 (5)	VXP1828	MF RING U.	1	
605 (5)	VGU7450	MF SELECT BUTTON	1	
606 (5)	VGQ4658	DIS KNOB HOLDER	1	
607 (5)	VGQ4236	JACK HOLD PIECE	1	
608 (5)	VGQ2607	BATTERY LOCK HOLDER	1	
609 (5)	VMP4948	BATTERY LOCK HOLD ANGLE	1	
612 (5)	VYQ1458	EYE CAP HOLDER U.	1	
616 (5)	VKF2704	S/S HOLDER COVER	1	
617 (5)	VGQ4225	ZOOM BARRIER	1	
618 (5)	VGU7766	VTR OPERATION BUTTON	1	
620 (5)	VXP1828	MF U.	1	
626 (5)	VWJ1099	EVF FLEX.	1	
627 (5)	VGQ4175	CASE HOLDER	1	
628 (5)	VGQ4241	EVF BARRIER	1	
629 (5)	VJF1317	LCD HOLDER PIECE	1	
630 (5)	F05KM100P	LCD	1	
631 (5)	VGQ4657	B. L. HOLDER	1	
632 (5)	VSC4684	B. L. SHIELD CASE (REAR)	1	
B501 (5)	VHD0794	SCREW	3	
B502 (5)	XQN2+CF7FZ	SCREW	2	
B503 (5)	XQN2+CJ12FZ	SCREW	1	
B505 (5)	XQN16+CG8FZ	SCREW	2	
B506 (5)	XQN2+CJ8	SCREW	2	
B507 (5)	XQN2+CJ6FZ	SCREW	11	
B508 (5)	XQN2+CJ6	SCREW	7	
B509 (5)	XQN2+CJ8FZ	SCREW	1	
B510 (5)	XQN16+CJ4	SCREW	1	
B511 (5)	XQN2+CF4FZ	SCREW	2	
B513 (5)	XQN2+BF4	SCREW	1	
B517 (5)	XQN2+CJ4	SCREW	5	
B519 (5)	XTB2+4F	SCREW	1	
B520 (5)	VHD1054	SCREW	2	
B521 (5)	VHD0713	SCREW	2	
B522 (5)	XQN2+C3	SCREW	1	
B523 (5)	XQN2+CJ5	SCREW	8	
B524 (5)	XQN2+CF12FZ	SCREW	8	
B525 (5)	XQN2+CG6FZ	SCREW	1	
B526 (5)	XQN2+C2	SCREW	1	
B527 (5)	XQN2+CG4	SCREW	1	
B528 (5)	XQN16+CJ6	SCREW	1	

❻ PACKING PARTS & ACCESSORIES SECTION


(660) ⚠
CASSETTE ADAPTOR
(EXCEPT NV-SX30B)
BATTERY PACK
'AC ADAPTOR
(659)
(654)
(661)
⚠
(655)
(656)
(657)
(658)
(663)
(664)
BATTERY
(665)
(662)
(EXCEPT NV-SX50EN/ENH)
BATTERY
(EXCEPT NV-SX30B)
MOVIE
(652)
(653)

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
652 (6)	VPN4500	CUSHION (LOWER)	1	
653 (6)	VPG9147	PACKING	1	NV-SX30EG
653 (6)	VPG9148	PACKING	1	NV-SX30B
653 (6)	VPG9150	PACKING	1	NV-SX50EG
653 (6)	VPG9151	PACKING	1	NV-SX50B
653 (6)	VPG9152	PACKING	1	NV-SX50EN
653 (6)	VPG9153	PACKING	1	NV-SX50ENH
654 (6)	VPN4497	ACCESSORIES PAD	1	
⚠ 655 (6)	VJA0998	AC CORD	1	NV-SX30EG
				NV-SX50EG/EN
⚠ 655 (6)	VJA0940	AC CORD	1	NV-SX30B
				NV-SX50B/ENH
656 (6)	VJA0941	DC OUTPUT CABLE	1	NV-SX30EG/B
				NV-SX50EG/B
656 (6)	VJA0769	DC OUTPUT CABLE	1	NV-SX50EN/ENH
657 (6)	VJA0816	S-VIDEO CABLE	1	
658 (6)	VFC2522	SHOLDER STRAP	1	
659 (6)	VPN4496	ACCESSORIES BOX	1	
⚠ 660 (6)	VQT7173	OPERATING INSTRUCTIONS	1	NV-SX30EG
		(ENGLISH/GERMAN/		
		FRENCH/SPANISH)		
⚠ 660 (6)	VQT7174	OPERATING INSTRUCTIONS	1	NV-SX30EG
		(DUTCH/ITALIAN/		
		DANISH/SWEDISH)		
⚠ 660 (6)	VQT7172	OPERATING INSTRUCTIONS	1	NV-SX30B
		(ENGLISH)		
⚠ 660 (6)	VQT7179	OPERATING INSTRUCTIONS	1	NV-SX50EG
		(ENGLISH/GERMAN		
		FRENCH/SPANISH)		
⚠ 660 (6)	VQT7183	OPERATING INSTRUCTIONS	1	NV-SX50EG
		(DUTCH/ITALIAN/		
		DANISH/SWEDISH)		
⚠ 660 (6)	VQT7175	OPERATING INSTRUCTIONS	1	NV-SX50B
		(ENGLISH)		
⚠ 660 (6)	VQT7177	OPERATING INSTRUCTIONS	1	NV-SX50EN/ENH
		(ENGLISH/ARABIC/		
		KOREAN/RUSSIAN)		
661 (6)	VJA0971	AV CORD	1	
662 (6)	VFA0151	21-PIN ADAPTOR	1	EXCEPT NV-SX50EN/ENH
663 (6)	VGQ6893	REMOTE CONTROLLER HOLDER	1	
664 (6)	VEQ1697	REMOTE CONTROLLER	1	
665 (6)	VJF1262	BATTERY COVER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		****** JIG & TOOLS ******		
		——— ELECTRICAL ———		
	VFM8180HUPF	VHS-C ALIGMENT TAPE	1	PAL
	VFK0374	COLOUR TEMP. CONV. FILRTER	1	(C12) OR VFK0713
	VFK0375	COLOUR TEMP. CONV. FILRTER	1	(C2) OR VFK0716
	VFK0644	EVR FIXTURE	1	
	VFK0701ROM38	ROM	1	
	VFK0766A	EVR CONNECTION CABLE 5P	1	
	VFK0734W	MEASURENT CABLE 24P	1	
	VFKW0F0033	ATTACHMENT CABLE	2	OR VFK0670
	VFKW0F0055	ATTACHMENT CABLE	2	
	VFKW0F0001	COMMON CABLE	2	
	VFKW0F0128	ATTACHMENT CABLE	1	OR VFK0978
	VFKW0F0127	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0118	ATTACHMENT CABLE	1	OR VFK0929
	VFKW0F0117	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0132	ATTACHMENT CABLE	1	OR VFK0980
	VFKW0F0131	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0111	ATTACHMENT CABLE	1	OR VFK013
	VFKW0F0112	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0140	ATTACHMENT CABLE	1	
	VFKW0F0139	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFK0668	EXTENSION CABLE	1	
		——— MECHANICAL ———		
	VFK0743	H-POSITION ADJUSTMENT	1	
	VFK0824	ASTERISK TYPE WRENCH	1	
	VFK0335	RETAINING RING REMOVER	1	
	VFK0329	POST ADJ. SCREW DRIVER	1	
	VFK0326	HEX WRENCH SET	1	
	VFK27	HEAD CLEANING STICK	1	
	VFK1024	WORLYTONE GREASE	1	

4-2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE : Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS(uf), P=uuF.
4. The P.C. Board units marked width " ■ " show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP23441B	CAMERA/MAIN C. B. A.	1	(RTL)
				NV-SX30EG/B
■	VEP23441A	CAMERA/MAIN C. B. A.	1	(RTL)
				NV-SX50EG/B/EN/ENH
■	VEP28229U	E. V. F. C. B. A.	1	(RTL)
				NV-SX30EG/B
■	VEP28245A	E. V. F. (A) C. B. A.	1	(RTL)
				NV-SX50EG/B/EN/ENH
■	VEP28246A	E. V. F. (B) C. B. A.	1	(RTL)
				NV-SX50EG/B/EN/ENH
■	VEP28247A	E. V. F. (C) C. B. A.	1	(RTL)
				NV-SX50EG/B/EN/ENH
■	VEP22250D	CCD FLEX. CARD C. B. A.	1	(RTL)
■	VEK8084	LENS FLEX. CARD C. B. A.	1	(RTL)
■	VEP23442A	DIGITAL FLEX. CARD C. B. A.	1	(RTL)
				NV-SX50EG/B/EN/ENH
■	VEK8233	MIC UNIT	1	(RTL)
■	VEP03E19A	S/EDIT C. B. A.	1	(RTL)
■	VXP1828	MF RING UNIT	1	(RTL)
■	VEP23441B	CAMERA/MAIN C. B. A.		(RTL)
				NV-SX30EG/B
C201	ECST0JX476Z	T. CAPACITOR CH 6. 3V 47U	1	
C202	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C203	ECST1AX156Z	T. CAPACITOR CH 10V 15U	1	
C204	ECST1CY475Z	T. CAPACITOR CH 16V 4. 7U	1	
C205	ECUX1E223KBV	C. CAPACITOR CH 25V 0. 022U	1	
C206	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C207	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C208, 09	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	2	
C210	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C211	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C212	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C213	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C214	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C216	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C217	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C218	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C219, 20	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	2	
C221	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C223	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C225	ECST0JX476Z	T. CAPACITOR CH 6. 3V 47U	1	
C226	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C227	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C229	ECST1VX225Z	T. CAPACITOR CH 35V 2. 2U	1	
C230	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C231	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C232	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C233	ECST0JX476Z	T. CAPACITOR CH 6. 3V 47U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C234	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C235	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C237	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C238	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C239	ECUM1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C240	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C301, 02	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	2	
C303	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C306	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C307	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C308	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C309	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C310	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C311	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C312	ECEV0JA101	E. CAPACITOR CH 6. 3V 100U	1	
C313	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C314, 15	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	2	
C318	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C319, 20	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	2	
C321	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C322	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C323, 24	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	2	
C325	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C326, 27	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	2	
C328	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C331	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C334, 35	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C341	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C701	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C702	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C703	ECUM1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C704	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C705	ECEV1CA470	E. CAPACITOR CH 16V 47U	1	
C706	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C709-11	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	3	
C719	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C720	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C721	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C722	ECUM1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C1001	ECUM1A225KBM	C. CAPACITOR CH 10V 2. 2U	1	
C1002, 03	ECUM1A335KBM	C. CAPACITOR CH 10V 3. 3U	2	
C1004	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C1005	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1008	ECUM1A335KBM	C. CAPACITOR CH 10V 3. 3U	1	
C1009	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C1010	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1012	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C1016	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1	
C1017	ECUM1E105KBM	C. CAPACITOR CH 25V 1U	1	
C1019	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1020	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1022	ECUM1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C1024	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1025	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C1026	ECEV1HA010	E. CAPACITOR CH 50V 1U	1	
C1027	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C1028	ECEV1HAR47	E. CAPACITOR CH 50V 0. 47U	1	
C1029	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C1030	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	1	
C1031	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C1032	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	1	
C1033-35	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	3	
C1036	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C1037	ECUX1C473KBV	C. CAPACITOR CH 16V 0. 047U	1	
C1040, 41	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C1042	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1044	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1046	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C1051	ECUM1C334KBN	C. CAPACITOR CH 16V 0. 33U	1	
C1055	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1057	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1064	ECUM1A335KBM	C. CAPACITOR CH 10V 3. 3U	1	
C1066	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1073	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C1080-82	ECUX1C473KBV	C. CAPACITOR CH 16V 0. 047U	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1084	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C1111	ECUM1A335KBM	C. CAPACITOR CH 10V 3. 3U	1	
C2001	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C2002	ECST1CY105Z	T. CAPACITOR CH 16V 1U	1	
C2003	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C2004	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C2005	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C2007	ECST1CY105Z	T. CAPACITOR CH 16V 1U	1	
C2008	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C2009, 10	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	2	
C2011	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C2012, 13	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C2014	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C2015-17	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	3	
C2018	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C2019	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C2020-22	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3	
C2023	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C2025-27	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	3	
C2028	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C2029	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C2030-32	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	3	
C2040-42	ECUX1C473KBV	C. CAPACITOR CH 16V 0. 047U	3	
C2043	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C2070	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3001	ECST0JX226Z	T. CAPACITOR CH 6. 3V 22U	1	
C3002	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C3003, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C3005-08	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	4	
C3009	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3010, 11	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C3012	ECUM1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C3013	ECUM1C474KBN	C. CAPACITOR CH 16V 0. 47U	1	
C3014, 15	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C3016	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C3017	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C3018	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3019	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3020	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C3021	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3023	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3026	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C3027	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3028	ECUX1E223KBV	C. CAPACITOR CH 25V 0. 022U	1	
C3029	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3030	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C3031-33	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3	
C3034	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C3035, 36	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C3038	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C3043	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C3044	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C3045	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3046-52	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	7	
C3053	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C3054-58	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	5	
C3060	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3061	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C3062	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3063	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3064	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	1	
C3065	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3066	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C3068	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3070, 71	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	2	
C3073	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C3075, 76	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C3077	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C3078	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C3080	ECST0JX226Z	T. CAPACITOR CH 6. 3V 22U	1	
C3081	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C3083, 84	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C3085, 86	ECEV06A471	E. CAPACITOR CH 4V 470U	2	
C3087	ECST1AY225Z	T. CAPACITOR CH 10V 2. 2U	1	
C3110	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3111	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3112	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C3113	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3114	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3115	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3117	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3118	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3120	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3121	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3501	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C3502, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C3504	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C3505	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3507	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3512	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3513	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C3514-16	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3	
C3517	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3518	ECUM1C334KBN	C. CAPACITOR CH 16V 0. 33U	1	
C3520	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3521	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3522	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C3523	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3524, 25	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C3528	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3529	ECST0JX476Z	T. CAPACITOR CH 6. 3V 47U	1	
C3530	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C3531-33	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3	
C3534	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	1	
C3535	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C3536	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3541	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C3542-46	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	5	
C4001	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4002	ECST1EY474Z	T. CAPACITOR CH 25V 0. 47U	1	
C4003	ECUM1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
C4004	ECUX1H123KBV	C. CAPACITOR CH 50V 0. 012U	1	
C4005	ECST0JY685Z	T. CAAPCITOR CH 6. 3V 6. 8U	1	
C4006	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C4007	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C4008	ECUM1C474KBN	C. CAPACITOR CH 16V 0. 47U	1	
C4009	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4010, 11	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	2	
C4012	ECUM1C224KBN	C. CAPACITOR CH 16V 0. 22U	1	
C4013	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C4014	ECST0JX226Z	T. CAPACITOR CH 6. 3V 22U	1	
C4015	ECUX1H153KBV	C. CAPACITOR CH 50V 0. 015U	1	
C4016	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C4017	ECUM2A472JCM	C. CAPACITOR CH 100V 4700P	1	
C4018	ECYX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C4020	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	1	
C4023	ECUX1H392KBV	C. CAPACITOR CH 50V 3900P	1	
C4501	ECST1CY225Z	T. CAPACITOR CH 16V 2. 2U	1	
C4502-05	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	4	
C4506, 07	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C4508, 09	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C4510, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
C4512	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C4514, 15	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C4516, 17	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	2	
C4518-20	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3	
C4521	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1U	1	
C4522, 23	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	2	
C4526	ECST0GY226Z	T. CAPACITOR CH 4V 22U	1	
C4532, 33	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C4534	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C4535	ECST0GY226Z	T. CAPACITOR CH 4V 22U	1	
C4539-41	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	3	
C4544	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C4545, 46	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C4550, 51	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	2	
C4554	ECUX1E183KBV	C. CAPACITOR CH 25V 0. 018U	1	
C5001	ECST0JY106Z	T. CAPACITOR CH 6. 3V 10U	1	
C5002	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C5003	ECUM1E683KBN	C. CAPACITOR CH 25V 0. 068U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5004	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5005	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5006	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C5007	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5008	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C5009	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5010	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C5011	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5012,13	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C5014	ECST0JX226Z	T.CAPACITOR CH 6.3V 22U	1	
C5015-17	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	3	
C5018	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5020	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5021-24	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	4	
C5025	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5026-29	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	4	
C5030-33	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	4	
C5034	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5036	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5037-40	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	4	
C5041,42	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C5044	ECST0JY475Z	T.CAPACITOR CH 6.3V 4.7U	1	
C5501	ECUX1H391JCV	C.CAPACITOR CH 50V 390P	1	
C5502	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5503	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5504	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C5505-07	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C5508	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5509	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C5510	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5511	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	1	
C5512,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5514	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5515	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C5516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5517	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5518	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5519	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5520	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5521	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C5522	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5523,24	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5525	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C5526,27	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5528	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5529	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C5530	ECUX1H010CCV	C.CAPACITOR CH 50V 1P	1	
C5531	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C5533	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5534	ECUX1H391JCV	C.CAPACITOR CH 50V 390P	1	
C5535	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5540	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5542	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5543	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C5544	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5545	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5546-50	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5	
C5552	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5553	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C5555	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C5556	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5557	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5573	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6001-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C6006,07	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	2	
C6012	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6013	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6014,15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6016	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6018	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C6020	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6022,23	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C6025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6026	ECEV1CA470	E.CAPACITOR CH 16V 47U	1	
C6027	ECEV0GA101	E.CAPACITOR CH 4V 100U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6028,29	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6030	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6032	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6033	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6034-36	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C6038	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6040	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6060	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6100	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C6201	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6203	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C6204	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6205	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6206	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C6207	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6208	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6209	ECEV0JA220	E.CAPACITOR CH 6.3V 22U	1	
C6210	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6215,16	ECEV1CA100	E.CAPACITOR CH 16V 10U	2	
C6217	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C6218	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
D201	MA728	DIODE	1	
D202	1SS355	DIODE	1	
D203	MA728	DIODE	1	
D204,05	1SS355	DIODE	2	
D302-04	MA728	DIODE	3	
D1002	EC20QS06	DIODE	1	
D1004	MA736	DIODE	1	
D1006,07	MA111	DIODE	2	
D1008	1SS355	DIODE	1	
D1009	MA8180-M	DIODE	1	
D1015	U1FWJ44N	DIODE	1	
D1020	1SS355	DIODE	1	
D3003	MA132WK	DIODE	1	
D3004	MA132WA	DIODE	1	
D3006,07	1SS355	DIODE	2	
D3501	MA334B	DIODE	1	
D3502	1SS355	DIODE	1	
D4501	MA132WK	DIODE	1	
D4502	MA133	DIODE	1	
D5502	1SS355	DIODE	1	
D6001-03	MA728	DIODE	3	
D6006-08	1SS355	DIODE	3	
D6009	MA728	DIODE	1	
D6011	MA132WK	DIODE	1	
D6012,13	MA132WA	DIODE	2	
D6016	MA133	DIODE	1	
D6018	MA728	DIODE	1	
D6201	1SS355	DIODE	1	
FL201	VLF1056	FILTER	1	
FL3001	VLF1057	FILTER	1	
FL3002	VLF1322	FILTER	1	
FL3501	VLF1391	FILTER	1	
FL5501	VLF1323	FILTER	1	
FP303	VJS3654B011	CONNECTOR (FEMALE) 11P	1	
FP701	VJS3319B018	CONNECTOR (FEMALE) 18P	1	
FP2001	VJS3828C007	CONNECTOR (FEMALE) 7P	1	
FP2002	VJS2960A018	CONNECTOR (FEMALE) 18P	1	
FP4001	VJS2958D009	CONNECTOR (FEMALE) 9P	1	
FP4002	VJS3931B030	CONNECTOR (FEMALE) 30P	1	
FP5001	VJS2959B023	CONNECTOR (FEMALE) 23P	1	
FP6001	VJS2959D018	CONNECTOR (FEMALE) 18P	1	
FP6002	VJS2959B006	CONNECTOR (FEMALE) 6P	1	
FP6006	VJS3930B021	CONNECTOR (FEMALE) 21P	1	
IC201	UPD16510GR	IC	1	
IC202	MN5268	IC	1	
IC203	AN2108NFHQ	IC	1	
IC204	TC7SH04FU	IC	1	
IC205	TC7SHU04FU	IC	1	
IC301	AN8133FHQ	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC302	F437002DPBW	IC	1	
IC303	T91CU10F9901	IC	1	
IC305	TA75S393F	IC	1	
IC306, 07	TC7SH08FU	IC	2	
IC308	AK6480AF	IC	1	
IC309	TC7SH08FU	IC	1	
IC310	TC7SH32FU	IC	1	
IC701, 02	TB6526F	IC	2	
IC703	TC7S14FU	IC	1	
IC706	NJM2115VA	IC	1	
IC711	TA75W01FU	IC	1	
IC1001	BA9706K	IC	1	
IC1002	RN5RG28AA	IC	1	
IC2001	TB6518F	IC	1	
IC2002, 03	UN224	TRANSISTOR-RESISTOR	2	
IC3001	HA118190AF	IC	1	
IC3002	M52363VP	IC	1	
IC3003	AN3298NSB	IC	1	
IC3004	MM1024BF	IC	1	
IC3501	BU6400KV	IC	1	
IC3502	TC7SHU04FU	IC	1	
IC3503	TC7SH04FU	IC	1	
IC3504	MN65752H	IC	1	
IC3505	BU1210214	IC	1	
IC4501	AN2950FHQ	IC	1	
IC5001	AN3353FHP	IC	1	
IC5502	TL8850AF	IC	1	
IC6001	MN675556G3D	IC	1	
IC6002	S3510AEFJ	IC	1	
IC6003	UPD6462GS625	IC	1	
IC6004	RH5RE38AA	IC	1	
IC6005	BA6289F	IC	1	
IC6006	TA75W393FU	IC	1	
IC6008	S2900AUP	IC	1	
IC6009	PST9133NR	IC	1	
IC6010	TC4W66F	IC	1	
IC6011	XC62AP3502PR	IC	1	
IC6012	M62352GP	IC	1	
IC6013	TC7WH74FU	IC	1	
L201	VLQ0426J100	COIL 10UH	1	
L202	VLQ0319F150	COIL 15UH	1	
L203	VLQ0464K6R8	COIL 6. 8UH	1	
L204	VLQ0319K100	COIL 10UH	1	
L205	VLQ0426J1R5	COIL 1. 5UH	1	
L208	VLQ0319K331	COIL 330UH	1	
L210	VLQ0319K100	COIL 10UH	1	
L211	VLQ0426J220	COIL 22UH	1	
L214.	VLQ0779K101	COIL	1	
L301, 02	VLQ0319K100	COIL 10UH	2	
L303	VLQ0464K6R8	COIL 6. 8UH	1	
L304-06	VLQ0319K100	COIL 10UH	3	
L308	VLQ0319K100	COIL 10UH	1	
L310	VLQ0319K100	COIL 10UH	1	
L701	VLQ0319K100	COIL 10UH	1	
L703, 04	VLQ0319K100	COIL 10UH	2	
L1001	VLQ0759	COIL	1	
L1002	VLQ0760	COIL	1	
L1003	VLQ0763	COIL	1	
L1004	VLQ0319K100	COIL 10UH	1	
L1006	VLQ0319K100	COIL 10UH	1	
L1007	VLQ0761	COIL	1	
L1008	VLQ0763	COIL	1	
L1010	VLQ0319K100	COIL 10UH	1	
L1011	VLQ0319K101	COIL 100UH	1	
L1012-14	VLQ0319K100	COIL 10UH	3	
L1062	VLQ0762	COIL	1	
L1110	VLQ0759	COIL	1	
L2001	VLQ0319M1R0	COIL 1UH	1	
L3001	VLQ0426J101	COIL 100UH	1	
L3003	VLQ0426J330	COIL 33UH	1	
L3005	VLQ0163J121	COIL 120UH	1	
L3006	VLQ0426J390	COIL 39UH	1	
L3007	VLQ0426J220	COIL 22UH	1	
L3008	VLQ0319K100	COIL 10UH	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3009	VLQ0319K101	COIL 100UH	1	
L3010, 11	VLQ0319K100	COIL 10UH	2	
L3012	VLQ0163J121	COIL 120UH	1	
L3013	VLQ0426J3R9	COIL 3. 9UH	1	
L3014	VLQ0426J100	COIL 10UH	1	
L3015	VLQ0426J470	COIL 47UH	1	
L3016	VLQ0319K100	COIL 10UH	1	
L3501, 02	VLQ0319K100	COIL 10UH	2	
L3504	VLQ0319K100	COIL 10UH	1	
L3506	VLQ0426J820	COIL 82UH	1	
L3507	VLQ0426J150	COIL 15UH	1	
L3508	VLQ0426J2R2	COIL 2. 2UH	1	
L4001	VLQ0319K470	COIL 47UH	1	
L4501, 02	VLQ0319K470	COIL 47UH	2	
L5001	VLQ0319K101	COIL 100UH	1	
L5002-04	VLQ0319K100	COIL 10UH	3	
L5005-07	VLQ0319K101	COIL 100UH	3	
L5501	VLQ0426J150	COIL 15UH	1	
L5502	VLQ0426J6R8	COIL 6. 8UH	1	
L5503, 04	VLQ0319K100	COIL 10UH	2	
L5505	VLQ0426J820	COIL 82UH	1	
L5506	VLQ0426J150	COIL 15UH	1	
L5507	VLQ0319K100	COIL 10UH	1	
L5509	VLQ0426J270	COIL 27UH	1	
L6002	VLQ0319K101	COIL 100UH	1	
LB201, 02	VLP0146	COIL	2	
LB301, 02	VLP0175	COIL	2	
LB304	VLP0175	COIL	1	
LB306	VLP0323A102	COIL	1	
PP201	VJP3358C012	CONNECTOR (MALE) 12P	1	
PP301	VJP2962C024	CONNECTOR (MALE) 24P	1	
PP3001	VJP3358C016	CONNECTOR (MALE) 16P	1	
PP6001	VJP3358C016	CONNECTOR (MALE) 16P	1	
PS1001	VJS2961C024	CONNECTOR (FEMALE) 24P	1	
Q201	XP4601	TRANSISTOR-TRANSISTOR	1	
Q301	2SD1030	TRANSISTOR	1	
Q701	2SD601A	TRANSISTOR	1	
Q703-06	XN4404	TRANSISTOR	4	
Q1001	2SA1731-R	TRANSISTOR	1	
Q1002, 03	2SB798	TRANSISTOR	2	
Q1004	2SD2210	TRANSISTOR	1	
Q1005, 06	2SB1073	TRANSISTOR	2	
Q1009	2SD2216	TRANSISTOR	1	
Q1010	2SB1462-R	TRANSISTOR	1	
Q1062	MPL1	TRANSISTOR	1	
Q3001, 02	2SB1462-R	TRANSISTOR	2	
Q3003	2SD2216	TRANSISTOR	1	
Q3004, 05	2SB1462-R	TRANSISTOR	2	
Q3006	2SC4627	TRANSISTOR	1	
Q3007, 08	2SD2216	TRANSISTOR	2	
Q3009	2SC4627	TRANSISTOR	1	
Q3010	2SD2216	TRANSISTOR	1	
Q3011	2SB1462-R	TRANSISTOR	1	
Q3012	XP4501	TRANSISTOR-TRANSISTOR	1	
Q3014	2SC4627	TRANSISTOR	1	
Q3015	2SD2216	TRANSISTOR	1	
Q3016	2SB1462-R	TRANSISTOR	1	
Q3017	2SD2216	TRANSISTOR	1	
Q3018	2SB970X	TRANSISTOR	1	
Q3501	XP4601	TRANSISTOR-TRANSISTOR	1	
Q3502-04	2SD2216	TRANSISTOR	3	
Q3505-07	2SB1462-R	TRANSISTOR	3	
Q3509	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4001	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4002	2SD602-R	TRANSISTOR	1	
Q4004	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4005	2SB1219	TRANSISTOR	1	
Q4501	XN4504	TRANSISTOR	1	
Q4503	XP4501	TRANSISTOR-TRANSISTOR	1	
Q5001, 02	UMX20N	TRANSISTOR	2	
Q5005	2SA812	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q5501	2SB1462-R	TRANSISTOR	1	
Q5502	2SD2216	TRANSISTOR	1	
Q5504	2SD2216	TRANSISTOR	1	
Q5505, 06	2SB1462-R	TRANSISTOR	2	
Q5507	2SD2216	TRANSISTOR	1	
Q5509	2SD2216	TRANSISTOR	1	
Q6001, 02	2SD2216	TRANSISTOR	2	
Q6003	2SB1462-R	TRANSISTOR	1	
Q6004	2SD2216	TRANSISTOR	1	
Q6005	XP6501	TRANSISTOR	1	
Q6006, 07	2SD2216	TRANSISTOR	2	
Q6201	2SB1462-R	TRANSISTOR	1	
QR301	MRN2111	TRANSISTOR-RESISTOR	1	
QR302	XP4115	TRANSISTOR-RESISTOR	1	
QR303	XP1213	TRANSISTOR-RESISTOR	1	
QR304	XP1212	TRANSISTOR-RESISTOR	1	
QR305, 06	MRN1102	TRANSISTOR-RESISTOR	2	
QR701	MRN1102	TRANSISTOR-RESISTOR	1	
QR1001	MRN2102	TRANSISTOR-RESISTOR	1	
QR1005	UN9217	TRANSISTOR-RESISTOR	1	
QR1012	MRN1104	TRANSISTOR-RESISTOR	1	
QR1061	MRN2111	TRANSISTOR-RESISTOR	1	
QR2002	MRN1111	TRANSISTOR-RESISTOR	1	
QR3001-05	MRN1104	TRANSISTOR-RESISTOR	5	
QR3006	MRN1103	TRANSISTOR-RESISTOR	1	
QR3009	MRN1104	TRANSISTOR-RESISTOR	1	
QR3011	MRN1104	TRANSISTOR-RESISTOR	1	
QR3012, 13	MRN1102	TRANSISTOR-RESISTOR	2	
QR3501	MRN2104	TRANSISTOR-RESISTOR	1	
QR3502, 03	MRN1104	TRANSISTOR-RESISTOR	2	
QR4002	UN9110	TRANSISTOR-RESISTOR	1	
QR4003	UN9114	TRANSISTOR-RESISTOR	1	
QR4009	XP4312	TRANSISTOR-RESISTOR	1	
QR4501	MRN2102	TRANSISTOR-RESISTOR	1	
QR4506	MRN1104	TRANSISTOR-RESISTOR	1	
QR5001	MRN1104	TRANSISTOR-RESISTOR	1	
QR5003	MRN1103	TRANSISTOR-RESISTOR	1	
QR5004	MRN1104	TRANSISTOR-RESISTOR	1	
QR5501, 02	MRN1103	TRANSISTOR-RESISTOR	2	
QR5506	MRN1104	TRANSISTOR-RESISTOR	1	
QR6001	MRN2104	TRANSISTOR-RESISTOR	1	
QR6002	MRN2111	TRANSISTOR-RESISTOR	1	
QR6003	MRN2103	TRANSISTOR-RESISTOR	1	
QR6004	XP4115	TRANSISTOR-RESISTOR	1	
QR6005	MRN1104	TRANSISTOR-RESISTOR	1	
QR6006, 07	MRN1102	TRANSISTOR-RESISTOR	2	
QR6008	MRN1104	TRANSISTOR-RESISTOR	1	
QR6010	XP1213	TRANSISTOR-RESISTOR	1	
QR6011	UN2130X	TRANSISTOR-RESISTOR	1	
QR6014	UN9210	TRANSISTOR-RESISTOR	1	
QR6015	MRN1111	TRANSISTOR-RESISTOR	1	
QR6050	XP1211	TRANSISTOR-RESISTOR	1	
R201, 02	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2	
R203	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R204	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R205	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R206	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R207	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R208	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R209	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R210	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R212	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R213	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R214	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R216	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R217	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R219	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R221	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	1	
R222	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R223	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R224	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R225	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R226	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R227	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R228	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R230	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R231	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R232	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R233	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R237, 38	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R239	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R241	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R242	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R243	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R245	ERJ2GEJ184	M.RESISTOR CH 1/16W 180K	1	
R246	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R247	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R301	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R302	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R303	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R304	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R305	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R306, 07	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R308, 09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R310	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R311	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R312	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R313	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R314	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R315	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R316	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R317	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R318	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R319	ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R320	ERJ3GEYG113	M.RESISTOR CH 1/16W 11K	1	
R321	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R322, 23	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	2	
R324, 25	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R326	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R344	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R359	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R360	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R361	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R364	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R367	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R368	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R369	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R370	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R371, 72	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R373	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R374	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R378	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R379	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R394	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R396	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R398	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R407-09	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R701, 02	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	2	
R703	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R704	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R705, 06	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R707	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R708, 09	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R711	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R720, 21	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R722	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R723	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R726	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R727	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R728	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R729	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R734, 35	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R736	ERJ2GEJ564	M. RESISTOR CH 1/16W 560K	1	
R737	ERJ2GEJ221	M. RESISTOR CH 1/16W 220	1	
R738	ERJ2GEJ124	M. RESISTOR CH 1/16W 120K	1	
R740	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R741	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1	
R761	ERJ2GEJ272	M. RESISTOR CH 1/16W 2.7K	1	
R776	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R1001	ERJ6RBB822	M. RESISTOR CH 1/10W 8.2K	1	
R1002	ERJ6RBB272	M. RESISTOR CH 1/10W 2.7K	1	
R1003	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R1004	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R1005	ERJ6RBB472	M. RESISTOR CH 1/10W 4.7K	1	
R1006	ERJ6RBB272	M. RESISTOR CH 1/10W 2.7K	1	
R1007	ERJ8GEYJ330	M. RESISTOR CH 1/8W 33	1	
R1009	ERJ6RBB152	M. RESISTOR CH 1/10W 1.5K	1	
R1010	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R1011	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1012	ERJ6RHB1582	M. RESISTOR CH 1/10W 15.8K	1	
R1013	ERJ6RBB393	M. RESISTOR CH 1/10W 39K	1	
R1014, 15	ERJ6RBB182	M. RESISTOR CH 1/10W 1.8K	2	
R1016	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R1017	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1018	ERJ2GEJ151	M. RESISTOR CH 1/16W 150	1	
R1019	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1020	ERJ2GEJ151	M. RESISTOR CH 1/16W 150	1	
R1021	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1022	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	
R1023	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R1024	ERJ2GEJ470	M. RESISTOR CH 1/16W 47	1	
R1025	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1026	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R1027	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R1035	ERJ2GEJ470	M. RESISTOR CH 1/16W 47	1	
R1038	ERJ3RBD131	M. RESISTOR CH 1/16W 130	1	
R1039	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R1040	ERJ3RBD111	M. RESISTOR CH 1/16W 110	1	
R1043	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	1	
R1051	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R1052	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R1057	ERJ2GEJ182	M. RESISTOR CH 1/16W 1.8K	1	
R1060	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R1061	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R1063	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R1065	ERJ2GEJ122	M. RESISTOR CH 1/16W 1.2K	1	
R1066	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R1067	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R1068	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R1069	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R1071	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R1072	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R1073	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R1085-87	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	3	
R1089	ERJ6RBB183	M. RESISTOR CH 1/10W 18K	1	
R2001	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R2002	ERJ2GEJ224	M. RESISTOR CH 1/16W 220K	1	
R2003	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R2004	ERJ2GEJ154	M. RESISTOR CH 1/16W 150K	1	
R2005	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R2006	ERJ2GEJ474	M. RESISTOR CH 1/16W 470K	1	
R2007	ERJ8GEYJR47	M. RESISTOR CH 1/8W 0.47	1	
R2008	ERJ8GEYJR33	M. RESISTOR CH 1/8W 0.33	1	
R2009	ERJ2GEJ561	M. RESISTOR CH 1/16W 560	1	
R2010	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R2012	ERJ2GEJ684	M. RESISTOR CH 1/16W 680K	1	
R2015	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R2016	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R2017	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R2018	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R2019, 20	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R2021	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R2022	ERJ8GEYJR33	M. RESISTOR CH 1/8W 0.33	1	
R2040-42	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	3	
R3001	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R3002, 03	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R3004	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3005	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R3006	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3007	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R3008	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3009	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3013	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R3014	ERJ2GEJ221	M. RESISTOR CH 1/16W 220	1	
R3016	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K	1	
R3017	ERJ2GEJ682	M. RESISTOR CH 1/16W 6.8K	1	
R3019	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3020	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K	1	
R3021	ERJ2GEJ271	M. RESISTOR CH 1/16W 270	1	
R3022	ERJ2GEJ511	M. RESISTOR CH 1/16W 510	1	
R3023	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R3024-26	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	3	
R3028	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R3029	ERJ2GEJ474	M. RESISTOR CH 1/16W 470K	1	
R3030	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3031	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3033, 34	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R3035	ERJ2GEJ271	M. RESISTOR CH 1/16W 270	1	
R3036	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3037, 38	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	2	
R3039	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3040	ERJ2GEJ562	M. RESISTOR CH 1/16W 5.6K	1	
R3041	ERJ2GEJ273	M. RESISTOR CH 1/16W 27K	1	
R3042	ERJ2GEJ183	M. RESISTOR CH 1/16W 18K	1	
R3043	ERJ2GEJ822	M. RESISTOR CH 1/16W 8.2K	1	
R3044	ERJ2GEJ182	M. RESISTOR CH 1/16W 1.8K	1	
R3045	ERJ2GEJ682	M. RESISTOR CH 1/16W 6.8K	1	
R3046	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GEJ272	M. RESISTOR CH 1/16W 2.7K	1	
R3048	ERJ2GEJ561	M. RESISTOR CH 1/16W 560	1	
R3049	ERJ2GEJ203	M. RESISTOR CH 1/16W 20K	1	
R3050	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R3052	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3053	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3054	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K	1	
R3058	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3059	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R3060	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3061	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3063	ERJ2GEJ562	M. RESISTOR CH 1/16W 5.6K	1	
R3064	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R3065	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3066	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R3067-69	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	3	
R3070, 71	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	2	
R3073	ERJ2GEJ681	M. RESISTOR CH 1/16W 680	1	
R3074	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K	1	
R3075-77	ERJ2GEJ680	M. RESISTOR CH 1/16W 68	3	
R3078	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3079	ERJ2GEJ225	M. RESISTOR CH 1/16W 2.2M	1	
R3080, 81	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R3082, 83	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	2	
R3084	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1	
R3085	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3086	ERJ2GEJ271	M. RESISTOR CH 1/16W 270	1	
R3087, 88	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R3090, 91	ERJ2GEJ562	M. RESISTOR CH 1/16W 5.6K	2	
R3094, 95	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	2	
R3096	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3097	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R3110, 11	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K	2	
R3112	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3113	ERJ2GEJ682	M. RESISTOR CH 1/16W 6.8K	1	
R3114	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3115	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3117	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R3118	ERJ2GEJ821	M. RESISTOR CH 1/16W 820	1	
R3119	ERJ2GEJ122	M. RESISTOR CH 1/16W 1.2K	1	
R3120	ERJ2GEJ391	M. RESISTOR CH 1/16W 390	1	
R3122	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R3123	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3130	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3131	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3132	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3133	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3134,35	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3136	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3501	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3502,03	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R3504	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3505	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3506	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3507	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3508	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3509	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R3510	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3511	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3512,13	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R3514	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3515	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3516	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3517	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3518,19	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3520	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3521	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3522	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3523,24	ERJ2GEJ162	M.RESISTOR CH 1/16W 1.6K	2	
R3525	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3526	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3527	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3528,29	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3530	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3531	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3532	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3533	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3534	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
R3535	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3536	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3537	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3538	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
R3539	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3540	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3541-44	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R3545	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R3546	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3547,48	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	2	
R3549	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3550	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3551	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3553	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3580,81	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R4001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R4002	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4003	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R4004	ERJ2GEJ334	M.RESISTOR CH 2W 330K	1	
R4005	ERJ2RHD682	M.RESISTOR CH 1/16W 6.8K	1	
R4006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4007	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4008	ERJ3RBD113	M.RESISTOR CH 1/16W 11K	1	
R4009	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R4010	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	1	
R4011	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R4012	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R4015,16	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4018	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	
R4019	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4020	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4021	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R4022	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4023	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4024	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R4029	ERJ2GEJ334	M.RESISTOR CH 2W 330K	1	
R4501	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R4506	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4511-13	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	3	
R4514-16	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	3	
R4517	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R4521	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4526,27	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	2	
R4528,29	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R4530,31	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4536	ERJ2GEJ334	M.RESISTOR CH 2W 330K	1	
R4537,38	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R4541	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4542	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R4543,44	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R4545,46	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R4554	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4567,68	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R5001	ERJ3RBD113	M.RESISTOR CH 1/16W 11K	1	
R5002,03	ERJ3GEYJ270	M.RESISTOR CH 1/16W 27	2	
R5004,05	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R5006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R5007	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R5008	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R5009	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R5010	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5011	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5012	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R5013	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R5014	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	
R5015	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5017	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R5018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5020	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R5502	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5503	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R5504	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R5505	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R5506	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5507	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R5508	ERJ2GEJ125	M.RESISTOR CH 1/16W 1.2M	1	
R5509	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5511	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5512	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R5513	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5514	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5515	ERJ2GEJ912	M.RESISTOR CH 1/16W 9.1K	1	
R5516	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5517,18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R5519	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R5520,21	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R5522	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R5524	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5525	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R5526,27	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R5528	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R5529	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R5530	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5531	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R5532	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5533	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R5534	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R5535	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5536	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5537	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5538	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5539	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5540	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5541	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R5543	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5548	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5549	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R5550	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R5551	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R6001	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R6002	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6003	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R6004	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R6005	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6007	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6008	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6009	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6011	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R6012	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6013	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6014	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R6015	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6016	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6017-20	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R6021	ERJ8GEYJ120	M.RESISTOR CH 1/8W 12	1	
R6022	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R6023	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6024	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R6025,26	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R6027	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R6028,29	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R6030	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6031	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6032	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R6033	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R6034	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R6035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R6036	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6037	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6038	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6039	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R6040	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6041	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R6042	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	1	
R6043	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6044	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R6045	ERJ2RHD333	M.RESISTOR CH 1/16W 93K	1	
R6046	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R6047	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R6048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6049	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6050	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6051-53	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	3	
R6054	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R6055	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6056	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R6057-59	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R6060	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R6061	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R6062	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R6063	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6064	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6065	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R6066	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R6067	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R6068	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R6069	ERJ2GEJ334	M.RESISTOR CH 2W 330K	1	
R6070	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R6071	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6072	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R6073	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6074	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6075	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R6076	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R6077	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6078	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R6079	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R6080	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6081	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6082	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R6083	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6084	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6085,86	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R6087	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R6088	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6089	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R6090	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6091	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R6092	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6093	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6094	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6095	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R6096	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R6097	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6098	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R6099	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R6144	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6145	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R6154	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6201	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6202	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R6203	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R6204	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6205	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6206-08	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	3	
R6209	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6210	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R6211	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R6212	ERJ2GEJ181	M.RESISTOR CH 1/16W 180	1	
R6213,14	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	2	
R6215	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6313	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
RA301,02	EXB28V102J	RESISTOR-RESISTOR	2	
RA304-06	EXB28VR000	RESISTOR-RESISTOR	3	
RA311-13	EXB28V222J	RESISTOR-RESISTOR	3	
RA6001	EXB28V102J	RESISTOR-RESISTOR	1	
RA6002	EXB28V473J	RESISTOR-RESISTOR	1	
RA6003	EXB24V102J	RESISTOR-RESISTOR	1	
RA6004	EXB28V102J	RESISTOR-RESISTOR	1	
RA6005	EXB24V102J	RESISTOR-RESISTOR	1	
RA6006	EXB28V683J	RESISTOR-RESISTOR	1	
RA6007	EXB28V102J	RESISTOR-RESISTOR	1	
RA6008	EXB28V473J	RESISTOR-RESISTOR	1	
T1001	VTP0501	TRANSFORMER	1	
T1002	VTP0357	TRANSFORMER	1	
T4001	EI06QB008	TRANSFORMER	1	
X201	VSX0825	CRYSTAL OSCILLATOR	1	
X3501	VSX0899	CRYSTAL OSCILLATOR	1	
X5501	VSX0809	CRYSTAL OSCILLATOR	1	
X6001	VSX0654	CRYSTAL OSCILLATOR	1	
X6003	VSX0601	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC3855	POWER SHIELD COVER(TOP)	1	
	VSC3906	POWER SHIELD COVER(BOTT.)	1	
	VSC4483	H.A SHIELD COVER(BOTT.)	1	
	VSC4482	H.A SHIELD COVER(TOP)	1	
	VSC4675	SENSOR SHIELD COVER(TOP)	1	
	VSC4676	SENSOR SHIELD COVER(BOTT)	1	
	VMZ2630	H.A BARRIER	1	
	VMZ2754	LPF BARRIER	1	
■	VEP23441A	CAMERA/MAIN C.B.A.		(RTL)
				NV-SX50EG/B/EN/ENH
C201	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
C202	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C203	ECST1AX156Z	T.CAPACITOR CH 10V 15U	1	
C204	ECST1CY475Z	T.CAPACITOR CH 16V 4.7U	1	
C205	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C206	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C207	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C208,09	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	2	
C210	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C211	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C212	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C213	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C214	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C216	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C217	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C218	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C219,20	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	2	
C221	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C223	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C225	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
C226	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C227	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C229	ECST1VX225Z	T.CAPACITOR CH 35V 2.2U	1	
C230	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C231	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C232	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C233	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
C234	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C235	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C237	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C238	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C239	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C240	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C301,02	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	2	
C303	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C306	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C307	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C308	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C309	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C310	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C311	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C312	ECEV0JA101	E.CAPACITOR CH 6.3V 100U	1	
C313	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C314,15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C316	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C317,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C319,20	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	2	
C321	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C322	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C323,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C325	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C326,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C328	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C329,30	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C331	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C334,35	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C341	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C701	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C702	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C703	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C704	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C705	ECEV1CA470	E.CAPACITOR CH 16V 47U	1	
C706	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C709-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C719	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C720	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C722	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1001	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1002,03	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	2	
C1004	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C1005	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1008	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
C1009	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C1010	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1012	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1016	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1017	ECUM1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1019	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1020	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1022	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1024	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1026	ECEV1HA010	E.CAPACITOR CH 50V 1U	1	
C1027	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1028	ECEV1HAR47	E.CAPACITOR CH 50V 0.47U	1	
C1029	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1030	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
C1031	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1032	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
C1033-35	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1036	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1037	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1040,41	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C1042	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1044	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1046	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1051	ECUM1C334KBN	C.CAPACITOR CH 16V 0.33U	1	
C1055	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1057	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1064	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
C1066	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1073	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1080-82	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	3	
C1084	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C1111	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
C2001	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2002	ECST1CY105Z	T.CAPACITOR CH 16V 1U	1	
C2003	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C2004	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C2005	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C2007	ECST1CY105Z	T.CAPACITOR CH 16V 1U	1	
C2008	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2009,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C2011	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C2012,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2014	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2015-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2018	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2020-22	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C2023	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2025-27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2028	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2029	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2030-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2040-42	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	3	
C2043	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2070	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3001	ECST0JX226Z	T.CAPACITOR CH 6.3V 22U	1	
C3002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3003,04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3005-08	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	4	
C3009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3010,11	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	2	
C3012	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3013	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C3014,15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3016	ECUX1H391JCV	C.CAPACITOR CH 50V 390P	1	
C3017	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3018	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3019	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3020	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3021	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C3023	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3026	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3027	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3028	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C3029	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3030	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3031-33	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C3034	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C3035,36	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3038	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3043	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3044	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3045	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3046-52	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	7	
C3053	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C3054-58	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5	
C3060	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3061	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3062	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3063	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3064	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	1	
C3065	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3066	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C3068	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3070, 71	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	2	
C3073	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C3075, 76	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3077	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C3078	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3080	ECST0JX226Z	T. CAPACITOR CH 6.3V 22U	1	
C3081	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3083, 84	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3085, 86	ECEV0GA471	E. CAPACITOR CH 4V 470U	2	
C3087	ECST1AY225Z	T. CAPACITOR CH 10V 2.2U	1	
C3110	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C3111	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3112	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C3113	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3114	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3115	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3117	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3118	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3120	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3121	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3501	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C3502, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3504	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C3505	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3507	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3512	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3513	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C3514-16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C3517	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3518	ECUM1C334KBN	C. CAPACITOR CH 16V 0.33U	1	
C3520	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3521	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3522	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C3523	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3524, 25	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3528	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3529	ECST0JX476Z	T. CAPACITOR CH 6.3V 47U	1	
C3530	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3531-33	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C3534	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	1	
C3535	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3536	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3541	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3542-46	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	5	
C4001	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4002	ECST1EY474Z	T. CAPACITOR CH 25V 0.47U	1	
C4003	ECUM1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C4004	ECUX1H123KBV	C. CAPACITOR CH 50V 0.012U	1	
C4005	ECST0JY685Z	T. CAAPCITOR CH 6.3V 6.8U	1	
C4006	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C4007	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C4008	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C4009	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4010, 11	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	2	
C4012	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C4013	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4014	ECST0JX226Z	T. CAPACITOR CH 6.3V 22U	1	
C4015	ECUX1H153KBV	C. CAPACITOR CH 50V 0.015U	1	
C4016	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C4017	ECUM2A472JCM	C. CAPACITOR CH 100V 4700P	1	
C4018	ECYX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C4020	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	1	
C4023	ECUX1H392KBV	C. CAPACITOR CH 50V 3900P	1	
C4501	ECST1CY225Z	T. CAPACITOR CH 16V 2.2U	1	
C4502-05	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	4	
C4506, 07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C4508, 09	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C4510, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C4512	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C4514, 15	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C4516, 17	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	2	
C4518-20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C4521	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4522, 23	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	2	
C4526	ECST0GY226Z	T. CAPACITOR CH 4V 22U	1	
C4532, 33	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C4534	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4535	ECST0GY226Z	T. CAPACITOR CH 4V 22U	1	
C4539-41	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	3	
C4544	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C4545, 46	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C4550, 51	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	2	
C4554	ECUX1E183KBV	C. CAPACITOR CH 25V 0.018U	1	
C5001	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5002	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C5003	ECUM1E683KBN	C. CAPACITOR CH 25V 0.068U	1	
C5004	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5005	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5006	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C5007	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5008	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C5009	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5010	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C5011	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5012, 13	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	2	
C5014	ECST0JX226Z	T. CAPACITOR CH 6.3V 22U	1	
C5015-17	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	3	
C5018	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C5020	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5021-24	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	4	
C5025	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5026-29	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	4	
C5030-33	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	4	
C5034	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5036	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5037-40	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	4	
C5041, 42	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C5044	ECST0JY475Z	T. CAPACITOR CH 6.3V 4.7U	1	
C5501	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C5502	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5503	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5504	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C5505-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C5508	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5509	ECUX1H153KBV	C. CAPACITOR CH 50V 0.015U	1	
C5510	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5511	ECST1AY225Z	T. CAPACITOR CH 10V 2.2U	1	
C5512, 13	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C5514	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5515	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C5516	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5517	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5518	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5519	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C5520	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5521	ECUX1H020CCV	C. CAPACITOR CH 50V 2P	1	
C5522	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C5523, 24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5525	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C5526, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5528	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5529	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C5530	ECUX1H010CCV	C. CAPACITOR CH 50V 1P	1	
C5531	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C5533	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C5534	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C5535	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C5540	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5542	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5543	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C5544	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5545	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5546-50	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C5552	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5553	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C5555	ECUX1H020CCV	C. CAPACITOR CH 50V 2P	1	
C5556	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5557	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5573	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6001-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C6006,07	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	2	
C6012	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6013	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6014,15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6016	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6018	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C6020	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6022,23	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C6025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6026	ECEV1CA470	E.CAPACITOR CH 16V 47U	1	
C6027	ECEV0GA101	E.CAPACITOR CH 4V 100U	1	
C6028,29	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6030	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6032	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6033	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6034-36	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C6038	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6040	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6060	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6100	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C6201	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6203	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C6204	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6205	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6206	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C6207	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6208	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6209	ECEV0JA220	E.CAPACITOR CH 6.3V 22U	1	
C6210	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6215,16	ECEV1CA100	E.CAPACITOR CH 16V 10U	2	
C6217	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C6218	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C6301	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C6305	ECUX1H060DCV	C.CAPACITOR CH 50V 6P	1	
C6309	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6311	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6312	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C6315	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6318	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6320	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6321	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C6322	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C6324	ECEV0JA101	E.CAPACITOR CH 6.3V 100U	1	
C6325	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6326	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C6330	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C6331	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C6334	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6335	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6336	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6338	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D201	MA728	DIODE	1	
D202	1SS355	DIODE	1	
D203	MA728	DIODE	1	
D204,05	1SS355	DIODE	2	
D302-04	MA728	DIODE	3	
D1002	EC20QS06	DIODE	1	
D1004	MA736	DIODE	1	
D1006,07	MA111	DIODE	2	
D1008	1SS355	DIODE	1	
D1009	MA8180-M	DIODE	1	
D1015	U1FWJ44N	DIODE	1	
D1020	1SS355	DIODE	1	
D3003	MA132WK	DIODE	1	
D3004	MA132WA	DIODE	1	
D3006,07	1SS355	DIODE	2	
D3501	MA334B	DIODE	1	
D3502	1SS355	DIODE	1	
D4501	MA132WK	DIODE	1	
D5502	1SS355	DIODE	1	
D6001-03	MA728	DIODE	3	
D6006-08	1SS355	DIODE	3	
D6009	MA728	DIODE	1	
D6011	MA132WK	DIODE	1	
D6012,13	MA132WA	DIODE	2	
D6016	MA133	DIODE	1	
D6018	MA728	DIODE	1	
D6201	1SS355	DIODE	1	
D6301	MA132K	DIODE	1	
D6303	MA132WA	DIODE	1	
D6304,05	MA132K	DIODE	2	
FL201	VLF1056	FILTER	1	
FL3001	VLF1057	FILTER	1	
FL3002	VLF1322	FILTER	1	
FL3501	VLF1391	FILTER	1	
FL5501	VLF1323	FILTER	1	
FP301	VJS3930B006	CONNECTOR (FEMALE) 6P	1	
FP303	VJS3654B011	CONNECTOR (FEMALE) 11P	1	
FP701	VJS3319B018	CONNECTOR (FEMALE) 18P	1	
FP2001	VJS3828C007	CONNECTOR (FEMALE) 7P	1	
FP2002	VJS2960A018	CONNECTOR (FEMALE) 18P	1	
FP4001	VJS2958D009	CONNECTOR (FEMALE) 9P	1	
FP4002	VJS3931B030	CONNECTOR (FEMALE) 30P	1	
FP5001	VJS2959B023	CONNECTOR (FEMALE) 23P	1	
FP6001	VJS2959D018	CONNECTOR (FEMALE) 18P	1	
FP6002	VJS2959B006	CONNECTOR (FEMALE) 6P	1	
FP6006	VJS3930B021	CONNECTOR (FEMALE) 21P	1	
IC201	UPD16510GR	IC	1	
IC202	MN5268	IC	1	
IC203	AN2108NFHQ	IC	1	
IC204	TC7SH04FU	IC	1	
IC205	TC7SHU04FU	IC	1	
IC301	AN8133FHQ	IC	1	
IC302	F437002DPBW	IC	1	
IC303	T91CU10F9904	IC	1	
IC304	ZA4035H	IC	1	
IC305	TA75S393F	IC	1	
IC306,07	TC7SH08FU	IC	2	
IC308	AK6480AF	IC	1	
IC309	TC7SH08FU	IC	1	
IC310	TC7SH32FU	IC	1	
IC701,02	TB6526F	IC	2	
IC703	TC7S14FU	IC	1	
IC706	NJM2115VA	IC	1	
IC711	TA75W01FU	IC	1	
IC1001	BA9706K	IC	1	
IC1002	RN5RG28AA	IC	1	
IC2001	TB6518F	IC	1	
IC2002,03	UN224	TRANSISTOR-RESISTOR	2	
IC3001	HA118190AF	IC	1	
IC3002	M52363VP	IC	1	
IC3003	AN3298NSB	IC	1	
IC3004	MM1024BF	IC	1	
IC3501	BU6400KV	IC	1	
IC3502	TC7SHU04FU	IC	1	
IC3503	TC7SH04FU	IC	1	
IC3504	MN65752H	IC	1	
IC3505	BU1210214	IC	1	
IC4501	AN2950FHQ	IC	1	
IC5001	AN3353FHP	IC	1	
IC5502	TL8850AF	IC	1	
IC6001	MN675556G3E	IC	1	
IC6002	S3510AEFJ	IC	1	
IC6003	UPD6462GS625	IC	1	
IC6004	RH5RE38AA	IC	1	
IC6005	BA6289F	IC	1	
IC6006	TA75W393FU	IC	1	
IC6008	S2900AUP	IC	1	
IC6009	PST9133NR	IC	1	
IC6010	TC4W66F	IC	1	
IC6011	XC62AP3502PR	IC	1	
IC6012	M62352GP	IC	1	
IC6013	TC7WH74FU	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC6301	MN1870824M5Y	IC	1	
IC6302	TC7W04F	IC	1	
IC6303	BA7653F	IC	1	
IC6304	TC7WU04F	IC	1	
IC6305	NJM2903V	IC	1	
IC6306	S8420KF	IC	1	
IC6307	TC7W04F	IC	1	
L201	VLQ0426J100	COIL 10UH	1	
L202	VLQ0319F150	COIL 15UH	1	
L203	VLQ0464K6R8	COIL 6. 8UH	1	
L204	VLQ0319K100	COIL 10UH	1	
L205	VLQ0426J1R5	COIL 1. 5UH	1	
L208	VLQ0319K331	COIL 330UH	1	
L210	VLQ0319K100	COIL 10UH	1	
L211	VLQ0426J220	COIL 22UH	1	
L214	VLQ0779K101	COIL	1	
L301, 02	VLQ0319K100	COIL 10UH	2	
L303	VLQ0464K6R8	COIL 6. 8UH	1	
L304-06	VLQ0319K100	COIL 10UH	3	
L308-10	VLQ0319K100	COIL 10UH	3	
L701	VLQ0319K100	COIL 10UH	1	
L703, 04	VLQ0319K100	COIL 10UH	2	
L1001	VLQ0759	COIL	1	
L1002	VLQ0760	COIL	1	
L1003	VLQ0763	COIL	1	
L1004	VLQ0319K100	COIL 10UH	1	
L1006	VLQ0319K100	COIL 10UH	1	
L1007	VLQ0761	COIL	1	
L1008	VLQ0763	COIL	1	
L1010	VLQ0319K100	COIL 10UH	1	
L1011	VLQ0319K101	COIL 100UH	1	
L1012-14	VLQ0319K100	COIL 10UH	3	
L1062	VLQ0762	COIL	1	
L1110	VLQ0759	COIL	1	
L2001	VLQ0319M1R0	COIL 1UH	1	
L3001	VLQ0426J101	COIL 100UH	1	
L3003	VLQ0426J330	COIL 33UH	1	
L3005	VLQ0163J121	COIL 120UH	1	
L3006	VLQ0426J390	COIL 39UH	1	
L3007	VLQ0426J220	COIL 22UH	1	
L3008	VLQ0319K100	COIL 10UH	1	
L3009	VLQ0319K101	COIL 100UH	1	
L3010, 11	VLQ0319K100	COIL 10UH	2	
L3012	VLQ0163J121	COIL 120UH	1	
L3013	VLQ0426J3R9	COIL 3. 9UH	1	
L3014	VLQ0426J100	COIL 10UH	1	
L3015	VLQ0426J470	COIL 47UH	1	
L3016	VLQ0319K100	COIL 10UH	1	
L3501, 02	VLQ0319K100	COIL 10UH	2	
L3504	VLQ0319K100	COIL 10UH	1	
L3506	VLQ0426J820	COIL 82UH	1	
L3507	VLQ0426J150	COIL 15UH	1	
L3508	VLQ0426J2R2	COIL 2. 2UH	1	
L4001	VLQ0319K470	COIL 47UH	1	
L4501, 02	VLQ0319K470	COIL 47UH	2	
L5001	VLQ0319K101	COIL 100UH	1	
L5002-04	VLQ0319K100	COIL 10UH	3	
L5005-07	VLQ0319K101	COIL 100UH	3	
L5501	VLQ0426J150	COIL 15UH	1	
L5502	VLQ0426J6R8	COIL 6. 8UH	1	
L5503, 04	VLQ0319K100	COIL 10UH	2	
L5505	VLQ0426J820	COIL 82UH	1	
L5506	VLQ0426J150	COIL 15UH	1	
L5507	VLQ0319K100	COIL 10UH	1	
L5509	VLQ0426J270	COIL 27UH	1	
L6002	VLQ0319K101	COIL 100UH	1	
L6302	VLQ0319K101	COIL 100UH	1	
LB201, 02	VLP0146	COIL	2	
LB301-04	VLP0175	COIL	4	
LB306	VLP0323A102	COIL	1	
PP201	VJP3358C012	CONNECTOR (MALE) 12P	1	
PP301	VJP2962C024	CONNECTOR (MALE) 24P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PP3001	VJP3358C016	CONNECTOR (MALE) 16P	1	
PP6001	VJP3358C016	CONNECTOR (MALE) 16P	1	
PS1001	VJS2961C024	CONNECTOR (FEMALE) 24P	1	
Q201	XP4601	TRANSISTOR-TRANSISTOR	1	
Q301	2SD1030	TRANSISTOR	1	
Q701	2SD601A	TRANSISTOR	1	
Q703-06	XN4404	TRANSISTOR	4	
Q1001	2SA1731-R	TRANSISTOR	1	
Q1002, 03	2SB798	TRANSISTOR	2	
Q1004	2SD2210	TRANSISTOR	1	
Q1005, 06	2SB1073	TRANSISTOR	2	
Q1009	2SD2216	TRANSISTOR	1	
Q1010	2SB1462-R	TRANSISTOR	1	
Q1062	MPL1	TRANSISTOR	1	
Q3001, 02	2SB1462-R	TRANSISTOR	2	
Q3003	2SD2216	TRANSISTOR	1	
Q3004, 05	2SB1462-R	TRANSISTOR	2	
Q3006	2SC4627	TRANSISTOR	1	
Q3007, 08	2SD2216	TRANSISTOR	2	
Q3009	2SC4627	TRANSISTOR	1	
Q3010	2SD2216	TRANSISTOR	1	
Q3011	2SB1462-R	TRANSISTOR	1	
Q3012	XP4501	TRANSISTOR-TRANSISTOR	1	
Q3014	2SC4627	TRANSISTOR	1	
Q3015	2SD2216	TRANSISTOR	1	
Q3016	2SB1462-R	TRANSISTOR	1	
Q3017	2SD2216	TRANSISTOR	1	
Q3018	2SB970X	TRANSISTOR	1	
Q3501	XP4601	TRANSISTOR-TRANSISTOR	1	
Q3502-04	2SD2216	TRANSISTOR	3	
Q3505-07	2SB1462-R	TRANSISTOR	3	
Q3509	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4001	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4002	2SD602-R	TRANSISTOR	1	
Q4004	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4005	2SB1219	TRANSISTOR	1	
Q4501	XN4504	TRANSISTOR	1	
Q4503	XP4501	TRANSISTOR-TRANSISTOR	1	
Q5001, 02	UMX20N	TRANSISTOR	2	
Q5005	2SA812	TRANSISTOR	1	
Q5501	2SB1462-R	TRANSISTOR	1	
Q5502	2SD2216	TRANSISTOR	1	
Q5504	2SD2216	TRANSISTOR	1	
Q5505, 06	2SB1462-R	TRANSISTOR	2	
Q5507	2SD2216	TRANSISTOR	1	
Q5509	2SD2216	TRANSISTOR	1	
Q6001, 02	2SD2216	TRANSISTOR	2	
Q6003	2SB1462-R	TRANSISTOR	1	
Q6004	2SD2216	TRANSISTOR	1	
Q6005	XP6501	TRANSISTOR	1	
Q6006, 07	2SD2216	TRANSISTOR	2	
Q6201	2SB1462-R	TRANSISTOR	1	
Q6302	2SD2216	TRANSISTOR	1	
Q6304	2SK198	TRANSISTOR	1	
Q6305	2SC4627	TRANSISTOR	1	
QR301	MRN2111	TRANSISTOR-RESISTOR	1	
QR302	XP4115	TRANSISTOR-RESISTOR	1	
QR303	XP1213	TRANSISTOR-RESISTOR	1	
QR304	XP1212	TRANSISTOR-RESISTOR	1	
QR305, 06	MRN1102	TRANSISTOR-RESISTOR	2	
QR701	MRN1102	TRANSISTOR-RESISTOR	1	
QR1001	MRN2102	TRANSISTOR-RESISTOR	1	
QR1005	UN9217	TRANSISTOR-RESISTOR	1	
QR1012	MRN1104	TRANSISTOR-RESISTOR	1	
QR1061	MRN2111	TRANSISTOR-RESISTOR	1	
QR2002	MRN1111	TRANSISTOR-RESISTOR	1	
QR3001-05	MRN1104	TRANSISTOR-RESISTOR	5	
QR3006	MRN1103	TRANSISTOR-RESISTOR	1	
QR3009	MRN1104	TRANSISTOR-RESISTOR	1	
QR3011	MRN1104	TRANSISTOR-RESISTOR	1	
QR3012, 13	MRN1102	TRANSISTOR-RESISTOR	2	
QR3501	MRN2104	TRANSISTOR-RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR3502, 03	MRN1104	TRANSISTOR-RESISTOR	2	
QR4002	UN9110	TRANSISTOR-RESISTOR	1	
QR4003	UN9114	TRANSISTOR-RESISTOR	1	
QR4007	MRN1102	TRANSISTOR-RESISTOR	1	
QR4009	XP4312	TRANSISTOR-RESISTOR	1	
QR4501	MRN2102	TRANSISTOR-RESISTOR	1	
QR4506	MRN1104	TRANSISTOR-RESISTOR	1	
QR5001	MRN1104	TRANSISTOR-RESISTOR	1	
QR5003	MRN1103	TRANSISTOR-RESISTOR	1	
QR5004	MRN1104	TRANSISTOR-RESISTOR	1	
QR5501, 02	MRN1103	TRANSISTOR-RESISTOR	2	
QR5506	MRN1104	TRANSISTOR-RESISTOR	1	
QR6001	MRN2104	TRANSISTOR-RESISTOR	1	
QR6002	MRN2111	TRANSISTOR-RESISTOR	1	
QR6003	MRN2103	TRANSISTOR-RESISTOR	1	
QR6004	XP4115	TRANSISTOR-RESISTOR	1	
QR6005	MRN1104	TRANSISTOR-RESISTOR	1	
QR6006, 07	MRN1102	TRANSISTOR-RESISTOR	2	
QR6008	MRN1104	TRANSISTOR-RESISTOR	1	
QR6010	XP1213	TRANSISTOR-RESISTOR	1	
QR6011	UN2130X	TRANSISTOR-RESISTOR	1	
QR6014	UN9210	TRANSISTOR-RESISTOR	1	
QR6015	MRN1111	TRANSISTOR-RESISTOR	1	
QR6050	XP1211	TRANSISTOR-RESISTOR	1	
R201, 02	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	2	
R203	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R204	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1	
R205	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R206	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R207	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R208	ERJ2GEJ331	M. RESISTOR CH 1/16W 330	1	
R209	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R210	ERJ2GEJ681	M. RESISTOR CH 1/16W 680	1	
R212	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R213	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R214	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R216	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R217	ERJ2GEJ823	M. RESISTOR CH 1/16W 82K	1	
R219	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R221	ERJ2GEJ123	M. RESISTOR CH 1/16W 12K	1	
R222	ERJ2GEJ561	M. RESISTOR CH 1/16W 560	1	
R223	ERJ2GEJ331	M. RESISTOR CH 1/16W 330	1	
R224	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R225	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R226	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R227	ERJ2GEJ562	M. RESISTOR CH 1/16W 5.6K	1	
R228	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R230	ERJ2GEJ331	M. RESISTOR CH 1/16W 330	1	
R231	ERJ2GEJ562	M. RESISTOR CH 1/16W 5.6K	1	
R232	ERJ2GEJ221	M. RESISTOR CH 1/16W 220	1	
R233	ERJ2GEJ561	M. RESISTOR CH 1/16W 560	1	
R237, 38	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	2	
R239	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R241	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R242	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R243	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R245	ERJ2GEJ184	M. RESISTOR CH 1/16W 180K	1	
R246	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R247	ERJ2GEJ274	M. RESISTOR CH 1/16W 270K	1	
R301	ERJ2GEJ331	M. RESISTOR CH 1/16W 330	1	
R302	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R303	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R304	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R305	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R306, 07	ERJ2GEJ224	M. RESISTOR CH 1/16W 220K	2	
R308, 09	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R310	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R311	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R312	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R313	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1	
R314	ERJ2GEJ823	M. RESISTOR CH 1/16W 82K	1	
R315	ERJ2GEJ563	M. RESISTOR CH 1/16W 56K	1	
R316	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R317	ERJ3GEYJ335	M. RESISTOR CH 1/16W 3.3M	1	
R318	ERJ2GEJ563	M. RESISTOR CH 1/16W 56K	1	
R319	ERJ3GEYG183	M. RESISTOR CH 1/16W 18K	1	
R320	ERJ3GEYG113	M. RESISTOR CH 1/16W 11K	1	
R321	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R322, 23	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	2	
R324, 25	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	2	
R326	ERJ2GEJ273	M. RESISTOR CH 1/16W 27K	1	
R327	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R344	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R359	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R360	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R361	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R364	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R367	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R368	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R369	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R370	ERJ2GEJ122	M. RESISTOR CH 1/16W 1.2K	1	
R371, 72	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	2	
R373	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R374	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R375-77	ERJ2GEJ331	M. RESISTOR CH 1/16W 330	3	
R378	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R379	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R394	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R396	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R398	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R405, 06	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	2	
R407-09	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	3	
R701, 02	ERJ3GEYJ3R3	M. RESISTOR CH 1/16W 3.3	2	
R703	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R704	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R705, 06	ERJ3GEYJ2R2	M. RESISTOR CH 1/16W 2.2	2	
R707	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R708, 09	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	2	
R711	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1	
R716	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R720, 21	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	2	
R722	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R723	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R726	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R727	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R728	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1	
R729	ERJ2GEJ393	M. RESISTOR CH 1/16W 39K	1	
R730	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ273	M. RESISTOR CH 1/16W 27K	1	
R732	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1	
R734, 35	ERJ2GEJ123	M. RESISTOR CH 1/16W 12K	2	
R736	ERJ2GEJ564	M. RESISTOR CH 1/16W 560K	1	
R737	ERJ2GEJ221	M. RESISTOR CH 1/16W 220	1	
R738	ERJ2GEJ124	M. RESISTOR CH 1/16W 120K	1	
R740	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R741	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1	
R761	ERJ2GEJ272	M. RESISTOR CH 1/16W 2.7K	1	
R776	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R1001	ERJ6RBB822	M. RESISTOR CH 1/10W 8.2K	1	
R1002	ERJ6RBB272	M. RESISTOR CH 1/10W 2.7K	1	
R1003	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R1004	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R1005	ERJ6RBB472	M. RESISTOR CH 1/10W 4.7K	1	
R1006	ERJ6RBB272	M. RESISTOR CH 1/10W 2.7K	1	
R1007	ERJ8GEYJ330	M. RESISTOR CH 1/8W 33	1	
R1009	ERJ6RBB152	M. RESISTOR CH 1/10W 1.5K	1	
R1010	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R1011	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1012	ERJ6RHB1582	M. RESISTOR CH 1/10W 15.8K	1	
R1013	ERJ6RBB393	M. RESISTOR CH 1/10W 39K	1	
R1014, 15	ERJ6RBB182	M. RESISTOR CH 1/10W 1.8K	2	
R1016	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R1017	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1018	ERJ2GEJ151	M. RESISTOR CH 1/16W 150	1	
R1019	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1020	ERJ2GEJ151	M. RESISTOR CH 1/16W 150	1	
R1021	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1022	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	
R1023	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1024	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R1025	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1026	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1027	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R1035	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R1038	ERJ3RBD131	M.RESISTOR CH 1/16W 130	1	
R1039	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R1040	ERJ3RBD111	M.RESISTOR CH 1/16W 110	1	
R1043	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R1051	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R1052	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R1057	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1060	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1063	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1065	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1066	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1067	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1068	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1069	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1071	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1072	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1073	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1085-87	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R1089	ERJ6RBB183	M.RESISTOR CH 1/10W 18K	1	
R2001	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2002	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R2003	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2004	ERJ2GEJ154	M.RESISTOR CH 1/16W 150K	1	
R2005	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2006	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R2007	ERJ8GEYJR47	M.RESISTOR CH 1/8W 0.47	1	
R2008	ERJ8GEYJR33	M.RESISTOR CH 1/8W 0.33	1	
R2009	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R2010	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2012	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R2015	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2016	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2017	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2018	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2019, 20	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R2021	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R2022	ERJ8GEYJR33	M.RESISTOR CH 1/8W 0.33	1	
R2040-42	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	3	
R3001	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3002, 03	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3004	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3005	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3007	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3008	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3009	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3013	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3014	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3016	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3017	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3019	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3020	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3021	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3022	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
R3023	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3024-26	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R3028	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3029	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R3030	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3031	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3033, 34	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3035	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3036	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3037, 38	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R3039	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3040	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3041	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3042	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3043	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R3044	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3045	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3048	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R3049	ERJ2GEJ203	M.RESISTOR CH 1/16W 20K	1	
R3052	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3053	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3054	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3058	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3059	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3060	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3061	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3063	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3064	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3065	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3066	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3067-69	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	3	
R3070, 71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3073	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R3074	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3075-77	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	3	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3079	ERJ2GEJ225	M.RESISTOR CH 1/16W 2.2M	1	
R3080, 81	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3082, 83	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R3084	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3085	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3086	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3087, 88	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3090, 91	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	2	
R3094, 95	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R3096	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3097	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3110, 11	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	2	
R3112	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3113	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3114	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3117	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3118	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3119	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3120	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3122	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3123	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3130	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3131	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3132	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3133	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3134, 35	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3136	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3501	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3502, 03	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R3504	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3505	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3506	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3507	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3508	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3509	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R3510	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3511	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3512, 13	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R3514	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3515	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3516	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3517	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3518, 19	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3520	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3521	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3522	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3523, 24	ERJ2GEJ162	M.RESISTOR CH 1/16W 1.6K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3525	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3526	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3527	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3528, 29	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3530	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3531	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3532	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3533	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3534	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
R3535	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3536	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3537	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3538	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
R3539	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3540	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3541-44	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R3545	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R3546	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3547, 48	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	2	
R3549	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3550	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3551	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3553	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3580, 81	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R4001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R4002	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4003	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R4004	ERJ2GEJ334	M.RESISTOR CH 2W 330K	1	
R4005	ERJ2RHD682	M.RESISTOR CH 1/16W 6.8K	1	
R4006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4007	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4008	ERJ3RBD113	M.RESISTOR CH 1/16W 11K	1	
R4009	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R4010	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	1	
R4011	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R4012	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R4015, 16	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4018	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	
R4019	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4020	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4021	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R4022	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4023	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4024	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R4029	ERJ2GEJ334	M.RESISTOR CH 2W 330K	1	
R4501	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R4506	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4511-13	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	3	
R4514-16	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	3	
R4517	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R4521	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4526, 27	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	2	
R4528, 29	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R4530, 31	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4536	ERJ2GEJ334	M.RESISTOR CH 2W 330K	1	
R4537, 38	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R4541	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4542	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R4543, 44	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R4545, 46	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R4567, 68	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R5001	ERJ3RBD113	M.RESISTOR CH 1/16W 11K	1	
R5002, 03	ERJ3GEYJ270	M.RESISTOR CH 1/16W 27	2	
R5004, 05	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R5006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R5007	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R5008	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R5009	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R5010	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5011	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5012	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R5013	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R5014	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	
R5015	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5017	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5020	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R5502	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5503	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R5504	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R5505	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R5506	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5507	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R5508	ERJ2GEJ125	M.RESISTOR CH 1/16W 1.2M	1	
R5509	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5511	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5512	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R5513	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5514	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5515	ERJ2GEJ912	M.RESISTOR CH 1/16W 9.1K	1	
R5516	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5517, 18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R5519	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R5520, 21	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R5522	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R5524	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5525	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R5526, 27	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R5528	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R5529	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R5530	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5531	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R5532	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5533	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R5534	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R5535	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5536	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5537	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5538	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5539	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5540	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5541	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R5543	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5548	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R5549	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R5550	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R5551	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R6001	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R6002	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6003	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R6004	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R6005	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6006	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R6007	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R6008	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6009	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R6010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6012	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R6013	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6014	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R6015	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R6016	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6017-20	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R6021	ERJ8GEYJ120	M.RESISTOR CH 1/8W 12	1	
R6022	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R6023	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6024	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R6025, 26	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R6027	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R6028, 29	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R6030	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6031	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6032	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R6033	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R6034	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R6035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R6036	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6037	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6038	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6039	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6040	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R6041	ERJ2GEJ474	M. RESISTOR CH 1/16W 470K	1	
R6042	ERJ2GEJ123	M. RESISTOR CH 1/16W 12K	1	
R6043	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R6044	ERJ2RHD223	M. RESISTOR CH 1/16W 22K	1	
R6045	ERJ2RHD333	M. RESISTOR CH 1/16W 93K	1	
R6046	ERJ2GEJ683	M. RESISTOR CH 1/16W 68K	1	
R6047	ERJ2GEJ474	M. RESISTOR CH 1/16W 470K	1	
R6048	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R6049	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R6050	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R6051-53	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	3	
R6054	ERJ2GEJ393	M. RESISTOR CH 1/16W 39K	1	
R6055	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R6056	ERJ2GEJ683	M. RESISTOR CH 1/16W 68K	1	
R6057-59	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	3	
R6061	ERJ2GEJ393	M. RESISTOR CH 1/16W 39K	1	
R6062	ERJ2GEJ562	M. RESISTOR CH 1/16W 5.6K	1	
R6063	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R6064	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R6065	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1	
R6066	ERJ2GEJ683	M. RESISTOR CH 1/16W 68K	1	
R6067	ERJ2GEJ124	M. RESISTOR CH 1/16W 120K	1	
R6068	ERJ2GEJ474	M. RESISTOR CH 1/16W 470K	1	
R6069	ERJ2GEJ334	M. RESISTOR CH 2W 330K	1	
R6070	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R6071	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6072	ERJ2GEJ683	M. RESISTOR CH 1/16W 68K	1	
R6073	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6074	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R6075	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R6076	ERJ2GEJ272	M. RESISTOR CH 1/16W 2.7K	1	
R6077	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R6078	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R6079	ERJ2GEJ272	M. RESISTOR CH 1/16W 2.7K	1	
R6080	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R6081	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R6082	ERJ2GEJ393	M. RESISTOR CH 1/16W 39K	1	
R6083	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R6084	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R6085, 86	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	2	
R6087	ERJ2GEJ683	M. RESISTOR CH 1/16W 68K	1	
R6088	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R6089	ERJ2GEJ122	M. RESISTOR CH 1/16W 1.2K	1	
R6090	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6091	ERJ2GEJ121	M. RESISTOR CH 1/16W 120	1	
R6092	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	
R6093	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R6094	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R6095	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R6096	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R6097	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R6098	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R6099	ERJ2GEJ563	M. RESISTOR CH 1/16W 56K	1	
R6144	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R6145	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	
R6154	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R6201	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R6202	ERJ8GEYJ2R2	M. RESISTOR CH 1/8W 2.2	1	
R6203	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1	
R6204	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R6205	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6206-08	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	3	
R6209	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6210	ERJ2GEJ224	M. RESISTOR CH 1/16W 220K	1	
R6211	ERJ2GEJ474	M. RESISTOR CH 1/16W 470K	1	
R6212	ERJ2GEJ181	M. RESISTOR CH 1/16W 180	1	
R6213, 14	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	2	
R6215	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	
R6302	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6305	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1	
R6306	ERJ2GEJ562	M. RESISTOR CH 1/16W 5.6K	1	
R6307	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6308	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R6310	ERJ2GEJ682	M. RESISTOR CH 1/16W 6.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6311	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1	
R6312	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R6314	ERJ2RHD103	M. RESISTOR CH 1/16W 10K	1	
R6315	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1	
R6316	ERJ2GEJ561	M. RESISTOR CH 1/16W 560	1	
R6318	ERJ2GEJ331	M. RESISTOR CH 1/16W 330	1	
R6319	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	
R6323	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1	
R6324	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R6325	ERJ2RHD473	M. RESISTOR CH 1/16W 47K	1	
R6326, 27	ERJ2RHD104	M. RESISTOR CH 1/16W 100K	2	
R6329	ERJ2GEJ474	M. RESISTOR CH 1/16W 470K	1	
R6338, 39	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	2	
R6340	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K	1	
R6341	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K	1	
R6342	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	
R6348	ERJ6RED474	M. RESISTOR CH 1/10W 470K	1	
RA301, 02	EXB28V102J	RESISTOR-RESISTOR	2	
RA311-13	EXB28V222J	RESISTOR-RESISTOR	3	
RA6001	EXB28V102J	RESISTOR-RESISTOR	1	
RA6002	EXB28V473J	RESISTOR-RESISTOR	1	
RA6003	EXB24V102J	RESISTOR-RESISTOR	1	
RA6004	EXB28V102J	RESISTOR-RESISTOR	1	
RA6005	EXB24V102J	RESISTOR-RESISTOR	1	
RA6006	EXB28V683J	RESISTOR-RESISTOR	1	
RA6007	EXB28V102J	RESISTOR-RESISTOR	1	
RA6008	EXB28V473J	RESISTOR-RESISTOR	1	
T1001	VTP0501	TRANSFORMER	1	
T1002	VTP0357	TRANSFORMER	1	
T4001	EIQ6QB008	TRANSFORMER	1	
X201	VSX0825	CRYSTAL OSCILLATOR	1	
X3501	VSX0899	CRYSTAL OSCILLATOR	1	
X5501	VSX0809	CRYSTAL OSCILLATOR	1	
X6001	VSX0654	CRYSTAL OSCILLATOR	1	
X6003	VSX0601	CRYSTAL OSCILLATOR	1	
X6301	VSX0444	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC3855	POWER SHIELD COVER (TOP)	1	
	VSC3906	POWER SHIELD COVER (BOTT.)	1	
	VSC4483	H.A SHIELD COVER (BOTT.)	1	
	VSC4482	H.A SHIELD COVER (TOP)	1	
	VSC4675	SENSOR SHIELD COVER (TOP)	1	
	VSC4676	SENSOR SHIELD COVER (BOTT)	1	
	VMZ2630	H.A BARRIER	1	
	VMZ2754	LPF BARRIER	1	
■	VEP28229U	E.V.F. C.B.A.		(RTL)
				NV-SX30EG/B
C801	ECQV1H104JL	P. CAPACITOR 50V 0.1U	1	
C802-04	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	3	
C805	ECEA0JKE221	E. CAPACITOR 6.3V 220U	1	
C806	ECUX1C123KBV	C. CAPACITOR CH 16V 0.012U	1	
C807	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C808	ECST0JX476Z	T. CAPACITOR CH 6.3V 47U	1	
C809	ECA1CKF470	E. CAPACITOR 16V 47U	1	
C810	ECUM2A512JUM	C. CAPACITOR CH 100V 5100P	1	
C811	ECEA0JKE221	E. CAPACITOR 6.3V 220U	1	
C812	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C813	ECUM2J221KBM	C. CAPACITOR CH 630V 220P	1	
C814	ECEA1HSN010	E. CAPACITOR 50V 1U	1	
C815	ECUM2H331KBM	C. CAPACITOR CH 500V 330P	1	
C816	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C818	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C831	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C861	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C862	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C863	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C1603	ECEV1CA220	E. CAPACITOR CH 16V 22U	1	
C1703	ECEV0JG101ZP	E. CAPACITOR CH 6.3V 100U	1	
C1704	ECEV0JA101	E. CAPACITOR CH 6.3V 100U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1705	ECST1AD476Z	T. CAPACITOR CH 10V 47U	1	
C1706	ECEV0JA101	E. CAPACITOR CH 6.3V 100U	1	
C1708	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C1709	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C1710	ECST1AX156Z	T. CAPACITOR CH 10V 15U	1	
D803	MA142WA	DIODE	1	
D1601	MA8130M	DIODE	1	
D1603	MA8130M	DIODE	1	
D1702	EC10QS04	DIODE	1	
D1705	MA142K	DIODE	1	
IC801	AN2516S	IC	1	
IC1701	RN5RG37AA	IC	1	
IC1702	RH5RH492B	IC	1	
J1601	VEK7724	RFU	1	
L802	ELH5L244	COIL	1	
L804	VLQ0163J680	COIL 68UH	1	
L805	VLQ0319K100	COIL 10UH	1	
L806	VLQ0426J330	COIL 33UH	1	
L807	VLQ0319K330	COIL 39UH	1	
L1601, 02	VLP0307	COIL	2	
L1701	VLQ0770	COIL	1	
L1702	ELL04T044R	CHOKE COIL	1	
L1703	VLQ0770	COIL	1	
P801	VJP1597T	CONNECTOR (MALE) 4P	1	
P803	VJP1596T	CONNECTOR (MALE) 3P	1	
P804	VJP1242T	CONNECTOR (MALE) 2P	1	
PP1601	VJP3126B024	CONNECTOR (MALE) 24P	1	
Q801	2SB1462	TRANSISTOR	1	
Q802	2SD968A-S	TRANSISTOR	1	
Q803, 04	2SA1748	TRANSISTOR	2	
Q805, 06	2SD2216	TRANSISTOR	2	
Q1705	2SB1202-S	TRANSISTOR	1	
Q1706	2SD1119	TRANSISTOR	1	
QR881	UN5212	TRANSISTOR-RESISTOR	1	
QR882	UN2130X	TRANSISTOR-RESISTOR	1	
QR1702, 03	UN521F	TRANSISTOR-RESISTOR	2	
QR1704	UN5112	TRANSISTOR-RESISTOR	1	
R801	ERJ6ENF4422	M. RESISTOR CH 1/10W 44.2K	1	
R802	ERJ6GEYJ3R9	M. RESISTOR CH 1/10W 3.9	1	
R803	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R804	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R805	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R806	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R807	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	
R808	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R809	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R810	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	1	
R815	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R816, 17	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R818	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R819, 20	ERJ6GEYJ275	M. RESISTOR CH 1/10W 2.7M	2	
R821	ERJ6GEYJ225	M. RESISTOR CH 1/10W 2.2M	1	
R823	ERJ3GEYJ120	M. RESISTOR CH 1/16W 12	1	
R829	ERJ6ENF4222	M. RESISTOR CH 1/10W 42.2K	1	
R834	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R835	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R840	ERJ8GEYJ305	M. RESISTOR CH 1/8W 3M	1	
R841, 42	ERD21LLJ225	C. RESISTOR 1/8W 2.2M	2	
R843	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R844	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	
R845	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R850	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R851	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R852	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1	
R853	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R855	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R861	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R862	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R863	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R864	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R883	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
⚠ R1601	VSF0092	FUSE	1	
R1602	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R1603	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R1690	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R1699	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R1720, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1722	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1723	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R1724	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R1725	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1726	ERJ3GEYJ622	M. RESISTOR CH 1/16W 6.2K	1	
R1727	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R1731	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1732	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
S801	VEE9711	CRT SOCKET	1	
SW1695	VSQ0851	SWITCH	1	
SW1696	VSS0392	SWITCH	1	
T801	ECXC2802B	TRANSFORMER	1	
VR801	EVM7JGA00BE2	V. RESISTOR 220	1	
VR803	EVMLRGA00BV6	V. RESISTOR	1	
VR804	EVM7BSX30B55	V. RESISTOR 500K	1	
Z1601	VL2020/1HF	LITHIUM BATTERY	1	
		MISCELLANEOUS		
	VMP4952	DC JACK EARTH ANGLE	1	
	VSC4438	SHIELD COVER (TOP)	1	
	VSC4439	SHIELD COVER (BOTTOM)	1	
■	VEP28245A	E. V. F. (A) C. B. A.		(RTL)
				NV-SX50EG/B/EN/ENH
C802	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C803	ECYX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C804	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C805	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C806	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C807	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C809	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C810	ECEV1CA470FP	E. CAPACITOR CH 16V 47U	1	
C811	ECST1VX225Z	T. CAPACITOR CH 35V 2.2U	1	
C812	ECEV1CA100	E. CAPACITOR CH 16V 10U	1	
C813	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C814	ECEV1CA470FP	E. CAPACITOR CH 16V 47U	1	
C815-20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C821	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C822-24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C825	ECEV1CA470FP	E. CAPACITOR CH 16V 47U	1	
C826	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C828	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C831	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C840	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C842	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C843	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C844	ECUX1H681JCV	C. CAPACITOR CH 50V 680P	1	
C845	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C846	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C847-49	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C850	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C851	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C852	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C853	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C854-56	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	3	
C860	ECEV1CA100	E. CAPACITOR CH 16V 10U	1	
C861	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C892	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1603	ECEV1CA220	E. CAPACITOR CH 16V 22U	1	
C1703	ECEV0JG101ZP	E. CAPACITOR CH 6.3V 100U	1	
C1704	ECEV0JA101	E. CAPACITOR CH 6.3V 100U	1	
C1705	ECST1AD476Z	T. CAPACITOR CH 10V 47U	1	
C1706	ECEV0JA101	E. CAPACITOR CH 6.3V 100U	1	
C1709	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
D801, 02	1SS355	DIODE	2	
D1601	MA8130M	DIODE	1	
D1603	MA8130M	DIODE	1	
D1702	EC10QS04	DIODE	1	
FP801	VJS3319B022	CONNECTOR (FEMALE) 22P	1	
IC801	FA7610N	IC	1	
IC803	IR3Y31M	IC	1	
IC891	PQ20VZ1U	IC	1	
IC1701	RN5RG37AA	IC	1	
IC1702	RH5RH492B	IC	1	
J1601	VEK7724	RFU	1	
L802	VLQ0319K470	COIL 47UH	1	
L806	VLQ0319K331	COIL 330UH	1	
L807, 08	VLQ0319K470	COIL 47UH	2	
L809	VLQ0163J330	COIL 33UH	1	
L813	VLQ0319K470	COIL 47UH	1	
L1701	VLQ0770	COIL	1	
L1702	ELL04T044R	CHOKE COIL	1	
L1703	VLQ0770	COIL	1	
LB1601, 02	VLP0307	COIL	2	
PP1601	VJP3126B024	CONNECTOR (MALE) 24P	1	
Q801	2SD1328-S	TRANSISTOR	1	
Q802	2SB1218	TRANSISTOR	1	
Q1705	2SB1202-S	TRANSISTOR	1	
Q1706	2SD1119	TRANSISTOR	1	
QR1702	UN921F	TRANSISTOR-RESISTOR	1	
QR1703	UN521F	TRANSISTOR-RESISTOR	1	
QR1704	UN5112	TRANSISTOR-RESISTOR	1	
R810	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R811	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R812	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R813	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R814	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R815	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R816	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R817	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R818	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R819	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R820, 21	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
R822	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R823	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R824	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R825	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R826	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R827	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R828	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R829	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R830	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R831	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R833	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R837	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R838	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R840	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R842	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R843	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R844	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R845	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R846	ERJ3GEYJ106	M. RESISTOR CH 1/16W 10M	1	
R847	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R848, 49	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R850	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R851	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R852	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R853	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R854	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R855	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R856	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R857	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R858	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R859	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R860	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R861	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R862-64	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R865	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R866	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R867	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R889	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R890	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R892	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R893	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R894	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1601	VSF0226D25T	FUSE	1	
R1602	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R1603	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R1690	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R1720, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1722	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1723	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R1725	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1726, 27	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R1731	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1732	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R1733	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
SW1695	VSQ0851	SWITCH	1	
SW1696	VSS0392	SWITCH	1	
T801	VLT0904	TRANSFORMER	1	
VR801, 02	EVM3YSX50B24	V. RESISTOR 20K	2	
VR803	EVM7JGA00B14	V. RESISTOR 10K	1	
VR804, 05	EVM3YSX50B24	V. RESISTOR 20K	2	
VR806	EVM7JGA00B14	V. RESISTOR 10K	1	
VR807, 08	EVM3YSX50B24	V. RESISTOR 20K	2	
VR809	EVM3YSX50B52	V. RESISTOR 500	1	
X801	VSX0672	CRYSTAL OSCILLATOR	1	
Z801	VL2330/1HF	LITHIUM BATTERY	1	
		MISCELLANEOUS		
	VSC4457	EVF SHIELD COVER (TOP)	1	
	VSC4458	EVF SHIELD COVER (BOTTOM)	1	
	VSC4438	SHIELD COVER (TOP)	1	
	VSC4439	SHIELD COVER (BOTTOM)	1	
	VMP4952	DC JACK EARTH ANGLE	1	
■	VEP28246A	E. V. F. (B) C. B. A.		(RTL)
				NV-SX50EG/B/EN/ENH
C801	ECUM1A335KBP	C. CAPACITOR CH 10V 33U	1	
C827	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C829	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C830	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C832	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C833	ECST1CY225Z	T. CAPACITOR CH 16V 2.2U	1	
C834-37	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C838, 39	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	2	
C865, 66	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C877	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C893	VCEZ0JAU156Z	E. CAPACITOR 6.3V	1	
D803	1SS355	DIODE	1	
D804	MA338	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FP802	VJS3319B022	CONNECTOR (FEMALE) 22P	1	
FP803	VJS3319B016	CONNECTOR (FEMALE) 16P	1	
IC802	ET2070F0C	IC	1	
L801	VLQ0426J6R8	COIL 6.8UH	1	
L803-05	VLQ0464K100	COIL 10UH	3	
L891	VLQ0770	COIL	1	
P801	VJP3172D003	CONNECTOR (MALE) 3P	1	
Q805	2SD1819	TRANSISTOR	1	
QR801	UN2113	TRANSISTOR-RESISTOR	1	
R802,03	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R805	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R808	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R832	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R834	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R835	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R836	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R841	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R871,72	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R877	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R878,79	ERJ6RBB183	M.RESISTOR CH 1/10W 18K	2	
■	VEP28247A	E.V.F. (C) C.B.A.		(RTL)
				NV-SX50EG/B/EN/ENH
BL891	VLL0203	FLUORESCENT LAMP	1	
Q891	2SK1299-3S	TRANSISTOR	1	
R891	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
T891	ETJ09K36AM	TRANSFORMER	1	
		MISCELLANEOUS		
	VEE9796	WIRE CABLE	1	
■	VEP22250D	CCD FLEX. CARD C.B.A.		(RTL)
PS291	VJS3500C012	CONNECTOR (FEMALE) 12P	1	
C292	ECST1VX225Z	T.CAPACITOR CH 35V 2.2U	1	
C293,94	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	2	
C295	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
D291	MA153	DIODE	1	
Q291	2SC2295	TRANSISTOR	1	
R291	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	1	
R292	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
W291	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
		MISCELLANEOUS		
	VJB22250	FLEX. CARD	1	
■	VEK8084	LENS FLEX. CARD C.B.A.		(RTL)
		MISCELLANEOUS		
	ON1004-R	PHOTO INTERRUPTER	1	
■	VEP23442A	DIGITAL FLEX. CARD C.B.A.		(RTL)
				NV-SX50EG/B/EN/ENH
D390-92	LN1251CAL	DIODE	3	
SW391,92	EVQPA601K	SWITCH	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEK8233	MIC UNIT		(RTL)
C4520,21	ECEV05A470	E.CAPACITOR CH 4V 47U	2	
C4801-03	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	3	
C4804,05	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C4806,07	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4808,09	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C4810,11	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	2	
C4812,13	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	2	
C4814,15	ECUM1C563KBV	C.CAPACITOR CH 16V 0.056U	2	
C4816,17	ECST1CY105Z	T.CAPACITOR CH 16V 1U	2	
C4818,19	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C4822	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C4823	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C4824	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4825,26	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C4827,28	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C4829,30	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C4853,54	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C4855	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1	
C6801	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C6804	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C6811	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
D6801	CL150UR	DIODE	1	
D6802	PH310	DIODE	1	
D6803	MA8056-M	DIODE	1	
FP4803	VJS3452A022	CONNECTOR (FEMALE) 22P	1	
IC4801	BA14741F	IC	1	
IC6801	GP1U102X	IC	1	
JK3601	VJJ0524	JACK	1	
JK4851	VJJ0414	MIC JACK	1	
LB3604	VLP0171	COIL	1	
LB4801	VLQ0584	COIL	1	
LB4802,03	VLP0323A102	COIL	2	
P4801	VJP3172D004	CONNECTOR (MALE) 4P	1	
PP4802	VJP2963C018	CONNECTOR (MALE) 18P	1	
PS4801	VJS2961A018	CONNECTOR (FEMALE) 18P	1	
Q4801,02	XP4601	TRANSISTOR-TRANSISTOR	2	
Q4803	XP4501	TRANSISTOR-TRANSISTOR	1	
R4801-03	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	3	
R4804	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4805	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4806	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R4807-09	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	3	
R4810,11	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	2	
R4812-15	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4816,17	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	2	
R4818,19	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R4820,21	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	2	
R4822,23	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R4824,25	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4826,27	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4828,29	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R4830,31	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R4832	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4833	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4834	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4835,36	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4837,38	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R4839,40	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R4851,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R6801	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R6802	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6803	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	1	
R6804, 05	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R6806	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
S6801	EVQQH901M	SWITCH	1	
S6802	EVQPNA05Q	SWITCH	1	
S6803	EVQQH901M	SWITCH	1	
W3605	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
		MISCELLANEOUS		
	VGQ4237	PCB HOLDER	1	
	VHD0687	SCREW	1	
■	VEP03E19A	S/EDIT C.B.A.		(RTL)
C3651	ECUM1H821JCN	C. CAPACITOR CH 50V 820P	1	
C3652	ECUM1H473KBN	C. CAPACITOR CH 50V 0.047U	1	
FP3651	VJS2582B007	CONNECTOR (FEMALE) 7P	1	
JK3651	VEJ1722	JACK	1	
		MISCELLANEOUS		
	VMP5124	EARTH ANGLE	1	
	VEE9927	WIRE CABLE	1	
■	VXP1828	MF RING UNIT		(RTL)
PC710, 11	SG-211S	PHOTO INTERRUPTER	2	
		MISCELLANEOUS		
	XQN16+CJ5FZ	SCREW	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

Memo

INTERNAL REFERENCE CODES

NOTE: This chart is only for internal reference.
Do not order any parts according to these codes.

P.C.B.	FILM CODE
CAMERA/MAIN(NV-SX30)	HOYT00-23441
CAMERA/MAIN(NV-SX50)	HOYT02-23441
EVF & DC JACK	HOYT02-28229
E.V.F. (A)	HOYT00-28245
E.V.F. (B)	HOYT00-28246
E.V.F. (C)	HOYT00-28247
MF SENSOR	HOYT01-00Y08
MIC/AV	HOYT00-04679
CCD FLEXIBLE CARD	HOYT00-22250
ECM/REMO/IR	HOYT00-00Y75
S/EDIT	HOYT00-03E19